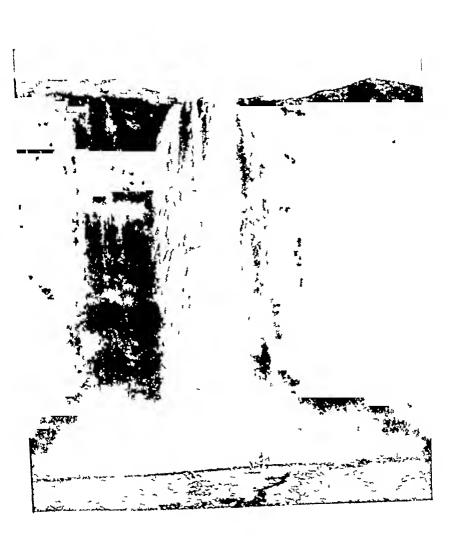
## Countries

of the World

THIRD I OLUME



Toum & Force An Sceland Fall

# COUNTRIES OF THE WORLD

De cribed by the Lealing Travel Writers of the Day

Illustrated with some 4000 Actual Photographs of which doubt 1200 are juven in full Colours 5 in Photographic

Lited by
J. A. Hammerton

THIKD VOLUME

Constantinople to Iceland



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Geneva Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Shores of Lake Geneva Place de Cornavia  Germany North Cathedral at Lübeck View of Meissen Leibnitz's House Hanover	1938 1951 1952 1953 1954 1956 1957 1958	Waters of Umanak Fjoril  GUIANAS  Beneath the Kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam Guinea Lands	2071 2075 2076 2077 2078 2079 2080 2081	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa	1455 1480 1492 1504 1526 1536 1547 1572 1592 1602 1626 1650 1662 1674 1690
GENEVA Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Sbores of Lake Geneva Place de Cornavia  GERMANY NORTH Catbedral at Lübeck View of Meissen Leibnitz s House Hanover Air view of Bremen	1938 1951 1952 1954 1956 1957 1958	Waters of Umanak Fjoril  GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Suriaam River Upper Reaches of the Suri nam  GUINEA LANDS Spinnlag Cotton in Freach	2071 2075 2076 2077 2078 2079 2080 2081 2081	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Beuador	1455 1480 1492 1504 1526 1536 1547 1572 1592 1602 1650 1662 1670 1690 1706
Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Sbores of Lake Geneva Place de Cornavia  Germany North Cathedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabetb's Cbureb Bres lau	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beneath the Kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo	2071 2075 2070 2077 2078 2080 2081 2081	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Ecuador Edinburgb	1455 1480 1492 1504 1526 1536 1537 1572 1692 1692 1650 1650 1662 1674 1690 1706
Geneva  Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Shores of Lake Geneva Place de Cornavia  Germany North Cathedral at Lübeck View of Meissen Leibnitz 3 House Hanover Air view of Bremen S Elizabetb s Chureb Bres lau Market Place of Düsseldorf	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemeated Well at Banyo Native School at Fumban	2071 2075 2076 2077 2078 2079 2080 2081 2081	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Beuador Edunburgb Edinburgb Environs	1455 1480 1492 1504 1526 1536 1547 1572 1692 1692 1690 1662 1674 1690 1726
Geneva Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavin  Germany North Cathedral at Lübech View of Meissen Leibnitz s House Hanover Air view of Bremen S Elizabeth s Chureb Bres lau Market Place of Düsseldorf Marnenwerder Cathedral	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beneath the kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, Freneb Gulana Quays on the Surinam River Upper Reaches of the Suri nam  GUINEA LANDS Spinniag Cotton in French Cameroon Cemeated Well at Banyo Native School at Fumban Cocoa Plantation In Ivory	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2088	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Reuador Edinburgb Edinburgb Environs Egypt	1455 1480 1492 1504 1526 1536 1547 1592 1602 1626 1650 1662 1674 1690 1706 1726 1726
Geneva  Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Shores of Lake Geneva Place de Cornavia  Germany North Cathedral at Lübeck View of Meissen Leibnitz 3 House Hanover Air view of Bremen S Elizabetb s Chureb Bres lau Market Place of Düsseldorf	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beneath the Kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantatron in Ivory Coast	2071 2075 2076 2077 2078 2079 2080 2081 2081 2081 2085 2088 2088	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Cast Africa Ecuador Edinburgb Edinburgb Environs Egypt England	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1662 1674 1690 1706 1726 1726 1750
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavin  GERMANY NORTH Cathedral at Lübech View of Meissen Leibnitz s House Hanover Air view of Bremen S Elizabeth's Cbureb Bres lau Market Place of Düsseldorf Marnenwerder Cathedral Rat cateber s House at Ha mein One of Hildesbeim's Guild	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beneath the Kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, Freneb Gulana Quays on the Surinam River Upper Reaches of the Suri mam  GUINEA LANDS Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2088 2089	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Cast Africa Ecuador Edinburgb Edinburgb Environs Egypt England	1455 1480 1492 1504 1526 1536 1547 1572 1692 1692 1650 1650 1706 1726 1726 1726 1726 1726 1726 1726 172
Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blanc On the Shores of Lake Geneva Place de Cornavia  Germany North Cathedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureh Bres lau Market Place of Düsseldorf Maren werder Cathedral Rat cateber's House at Ha mein One of Hildesbeim's Guild bouses	1938 1951 1952 1953 1954 1956 1957 1958 1961 1962 1973 1974	Waters of Umanak Fjoril  GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest	2071 2075 2076 2077 2078 2079 2080 2081 2081 2081 2085 2088 2088 2089 2090	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Ecuador Edinburgb Environs Egypt England Europe	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1766 1726 1726 1726 1750 1766 1750 1766 1750
Geneva Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavia  Germany North Catbedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabetb's Chureb Bres Iau Market Place of Düsseldorf Marienwerder Catbedral Rat cateber's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz	1938 1951 1952 1953 1956 1957 1958 1961 1974 1975 1976 1977 1978	Waters of Umanak Fjoril  GUIANAS  Beacath the kaleteur I alls Towa Hail In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Hecrenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2086 2086 2089 2090	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslov akıa Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Ecuador Edunburgb Edinburgb Environs Egypt England Europe Fiji	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1766 1726 1726 1726 1750 1766 1750 1766 1750
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Shores of Lake Geneva Place de Cornavin  GERMANY NORTH Cathedral at Lübech View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureb Bres lau Market Place of Düsseldorf Marnenwerder Cathedral Rat cateber's House at Ha meln One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains	1938 1951 1952 1953 1954 1956 1957 1958 1961 1973 1974 1975 1977	Waters of Umanak Fjoril  GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2088 2090 2090 2091	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Beuador Edinburgb Edinburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1662 1674 1690 1706 1726 1726 1750 1766-7 1864-7 1882
Palais des Nations Place du Molard Cathedral of S Peter Aerial view of Genevn Pont du Mont Blane On the Shores of Lake Geneva Place de Cornavia  GERMANY NORTH Cathedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureb Bres Iau Market Place of Düsseldorf Marrenwerder Cathedral Rat catcher's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirsebberg	1938 1951 1952 1953 1954 1957 1958 1961 1974 1975 1976 1977 1978 1979 1980 1982	GUIANAS  Beacath the Kaleteur I alls Towa Hail in Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Hecrenstraat Paramaribo Camp Cbarvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS  Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Coca Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Schondi	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2086 2086 2089 2090	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakıa Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Beuador Eduburgb Edunburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa	1455 1480 1492 1504 1526 1536 1547 1572 1602 1650 1650 1674 1690 1706 1726 1726 1750 1766-7 1864-5 1882 1898
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blanc On the Sbores of Lake Geneva Place de Cornavin  GERMANY NORTH Catbedral at Lübech View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureb Bres lau Market Place of Düsseldorf Marneawerder Catbedral Rat cateber's House at Ha meln One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirsebberg Leipzig Town Hall	1938 1951 1952 1953 1954 1956 1957 1958 1961 1974 1975 1976 1977 1978 1979 1980 1980 1982 1983	Waters of Umanak Fjoril  GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Suri nam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufsque Street Seene in Freetown	2071 2075 2070 2077 2078 2079 2080 2081 2081 2085 2088 2090 2090 2090 2091 2091 2092	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Ecuador Eduburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1662 1674 1690 1706 1726 1726 1726 1750 1766-7 1864-7 1882 1898 1910
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavia  Germany North Catbedral at Lübech View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabetb's Chureb Bres lau Market Place of Düsseldorf Marienwerder Catbedral Rat cateber's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirsebberg Leipzig Town Hall Roofs of Königsberg	1938 1951 1952 1953 1954 1957 1958 1961 1962 1973 1976 1977 1978 1979 1980 1982 1982 1983 1984	GUIANAS  Beneath the Kaleteur I alls Town Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Suri mam  GUINEA LANDS Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Sekondi Cape Coast Castle	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2086 2089 2090 2091 2091 2091 2091 2091 2091	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Beuador Edunburgb Edunburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1626 1674 1690 1706 1726 1726 1726 1750 1882 1892 1892
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Shores of Lake Geneva Place de Cornavia  GERMANY NORTH Cathedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Church Bres lau Market Place of Düsseldorf Marneawerder Cathedral Rat catcher's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirschberg Leipzig Town Hall Roofs of Königsberg View over Wittenberg	1938 1951 1952 1953 1954 1957 1958 1961 1973 1974 1975 1976 1977 1978 1979 1980 1983 1983 1984	GUIANAS  Beacath the Kaleteur I alls Towa Hail in Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Hecrenstraat Paramaribo Camp Cbarvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS  Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Coca Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Schondi	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2086 2089 2090 2091 2091 2091 2091 2091 2091	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Reuador Edinburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva Germany North Germany South Glasgow	1455 1480 1492 1504 1526 1536 1547 1572 1602 1650 1650 1706 1726 1726 1726 1726 1726 1726 1726 172
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavia  Germany North Catbedral at Lübech View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabetb's Chureb Bres lau Market Place of Düsseldorf Marienwerder Catbedral Rat cateber's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirsebberg Leipzig Town Hall Roofs of Königsberg	1938 1951 1952 1953 1954 1957 1958 1961 1962 1973 1976 1977 1978 1979 1980 1982 1982 1983 1984	Waters of Umanak Fjoril  GUIANAS  Beacath the kaleteur I alls Towa Hail In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Cbarvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinniag Cotton in French Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantation in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Scene in Freetown Quayside at Sekondi Čape Coast Castle  HAMBURG New Elbe Bridge	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2086 2089 2090 2091 2091 2091 2091 2091 2091	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakıa Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Beuador Eduburgb Edunburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva Germany North Germany South Glasgow Greece	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1626 1626 1674 1690 1706 1726 1726 1726 1750 1882 1892 1892 1892 1892 1892 1892 1892
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Shores of Lake Geneva Place de Cornavia  GERMANY NORTH Cathedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Church Bres lau Market Place of Düsseldorf Marneawerder Cathedral Rat catcher's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirschberg Leipzig Town Hall Roofs of Königsberg View over Wittenberg	1938 1951 1952 1953 1954 1957 1958 1961 1973 1974 1975 1976 1977 1978 1979 1980 1983 1983 1984	GUIANAS  Beneath the Knieteur I alls Town Hail in Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinning Cotton in French Cameroon Cemeated Well at Banyo Native School at Fumban Cocoa Plantaton in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Schondi Cape Coast Castle  HAMBURG New Elbe Bridge Hamburg Free Harbour	2071 2075 2076 2077 2078 2079 2080 2081 2081 2085 2086 2088 2090 2090 2091 2091 2092 2094 2095	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin East Africa Ecuador Edunburgb Edunburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva Germany North Germany South Glasgow Greece Greenland	1455 1480 1492 1504 1526 1536 1547 1572 1602 1626 1650 1662 1674 1690 1706 1726 1726 1726 1750 1864-5 1870 1882 1898 1910 1950 1950 1958 1950 1958 1958 1958 1958 1958 1958 1958 1958
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blanc On the Sbores of Lake Geneva Place de Cornavia  Germany North Catbedral at Lübeck View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureh Bres lau Market Place of Düsseldorf Marienwerder Cathedral Rat cateber's House at Ha mein One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirschberg Leipzig Town Hall Roofs of Königsberg View over Wittenberg Entrance to the Wartburg  Germany South	1938 1951 1952 1953 1954 1957 1958 1961 1976 1976 1977 1978 1979 1980 1983 1984 1985	GUIANAS  Beaeath the kaleteur I alls Towa Hall In Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Suri nam  GUINEA LANDS Spinniag Cotton in Freach Cameroon Cemented Well at Banyo Native School at Fumban Cocoa Plantatron in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Sekondi Cape Coast Castle  HAMBURG New Elbe Bridge Hamburg Free Harbour Inner Harbour and Zoll	2071 2075 2070 2077 2078 2079 2080 2081 2081 2085 2088 2090 2090 2090 2091 2092 2094 2095	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakıa Damaseus Danzig Delbi Denmark Dobruja Dresden Dublin Last Africa Beuador Eduburgb Eduburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva Germany North Germany South Glasgow Greece Greenland Gulanas	1455 1480 1492 1504 1526 1536 1547 1572 1602 1650 1650 1706 1726 1726 1726 1726 1726 1726 1726 172
Palais des Nations Place du Molard Cathedral of S Peter Acrial view of Genevn Pont du Mont Blane On the Sbores of Lake Geneva Place de Cornavin  GERMANY NORTH Catbedral at Lübech View of Meissen Leibnitz's House Hanover Air view of Bremen S Elizabeth's Chureb Bres lau Market Place of Düsseldorf Marnenwerder Catbedral Rat cateber's House at Ha meln One of Hildesbeim's Guild bouses Wernigerode in the Hartz Mountains Arcaded Market square Hirsebberg Leipzig Town Hall Roofs of Königsberg View over Wittenberg Entrance to the Wartburg  GERMANY SOUTH Lorelei Rock The Main, Opposite Frank	1938 1951 1952 1953 1954 1957 1958 1961 1973 1974 1975 1976 1977 1978 1979 1980 1983 1983 1984	GUIANAS  Beneath the Knieteur I alls Town Hail in Georgetown Loading Bauxite on the Demerara Water Street, Georgetown Heerenstraat Paramaribo Camp Charvela, French Guiana Quays on the Surinam River Upper Reaches of the Surinam  GUINEA LANDS Spinning Cotton in French Cameroon Cemeated Well at Banyo Native School at Fumban Cocoa Plantaton in Ivory Coast Lake Village at Kotonu Dwellings in Dahomey Forest Segbwena Market Day Rue Nationale, Rufisque Street Seene in Freetown Quayside at Schondi Cape Coast Castle  HAMBURG New Elbe Bridge Hamburg Free Harbour	2071 2075 2076 2077 2078 2079 2080 2081 2085 2088 2088 2090 2091 2091 2091 2092 2094 2095	Constantinople and Bosporus Copenhagen Corsica Crete Cuba Cyprus Czechoslovakia Damaseus Danzig Delhi Denmark Dobruja Dresden Dublin Last Africa Icuador Edinburgb Environs Egypt England Europe Fiji Finland & Other Baltic Lands Formosa France Geneva Germany North Germany South Glasgow Greece Greenland Guianas Guinea Lands	1455 1480 1492 1504 1526 1536 1547 1572 1602 1650 1650 1662 1674 1690 1726 1726 1726 1726 1726 1726 1726 1726
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#### CONSTANTINOPLE

#### in Europe's Borders Corner of Asia

## by Roy Elston

Author of "Constantinople Galtipoli and Asla Minor"

Wille's the first Megarian limit grants chose to settle at Chalcedon, on the eatern side of the Bosporus the Delphic oracle called them bhaci The cothet was just for they had passed in what is probably the greatest and most obvious site for a metropole that exists in the world, that site "In Pontus mouth upon the shore of Thrace which was at length to become the Con tantinorde mistros great city of two continents and as mans was

There Lat and West minele not only politically but also geographically for Con tantinople lies actually upon a detacked piece of \sia-an A lan promontory cleft from its natural body by a comparatively recent upheaval

It lies at the function of the Sea of Marmora and the Berroms in lat 16 north and long 25 0 50 14 east and the city proper which we call Stamboul is utuated on a triangular rate formed something like a harp that is the old Byzantum constructed upon seven hills after the fashion of Rome its prototype.

#### A M litted of Cities 1 On

But for geographical purposes Con stantinople may be taken to lie upon tho sevents and seven hills that swing from Yedi-Kulch on the Sea of Marmora to Rumeli kavak at the farther end of the Bosporus, and from hadi heul below Haidar Pasha to Anatoli havak which together with Rumell Kavak commands the entrance to the Black Sea. Within these boundaries are included Stamboul. Galata, Pera the suburbs which line both shores of the Golden Horn and the string of settlements upon both sides of the Bosporus.

Constantinopie proper is however made up of three di tinct divi ions-Stamboul Calain I era and Scutari -separated from each other by arms of the wa We shall observe each in its turn breinning with Stamboul

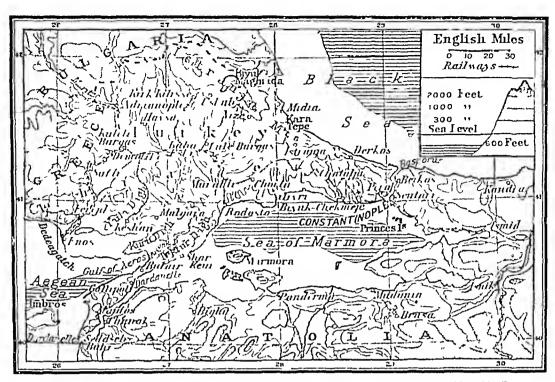
#### Seve Hill at Old Stamboot

Stamboul rises from a tongue of land which juts out between the Golden Horn on the north the Bosporus on its eastern apex and the Sea of Marmora on the south, and terminates in Old Seriglio Point It is central ridge separated from a lever one by the Lyous vally which more or less follows the line of the Golden Horn and has an inconsiderable stream running through it. The site which never mas higher than 253 feet is traingular in form and has a circuit of about 13 miles

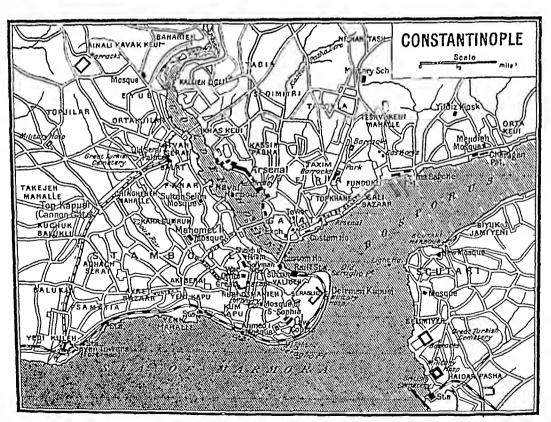
Stamboni is said to have been built on seven hill though it is difficult to establish them in relief The ridge between the I your and the Sea of Marmora Is one of these the other six are mere undulations and each is best distingui hed by some architectural feature upon lt. The first of these seven hills we may take as that which previously formed the Acropolis of Byzns the Old Seraglio S Sophia and relies of the Hippodrome are upon it. The second hill is now marked by the Porphyr, Column the third by the Mosque of Solyman the fourth by the Mosque of Malcomet the fifth by that of Selim the sixth by the ruins of the Hebdomon Palace and the seventh which is divided from the other six by the Lycus, is distinguished by the Fortress of the Seven Towers.

Stamboul is composed of forty three quarters all of them Turkish with the

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EUROPEAN TURKEY AND THE SHORES OF THE SEA OF MARMORA



THE THREE WATER-SUNDERED DIVISIONS OF CONSTANTINOPLE

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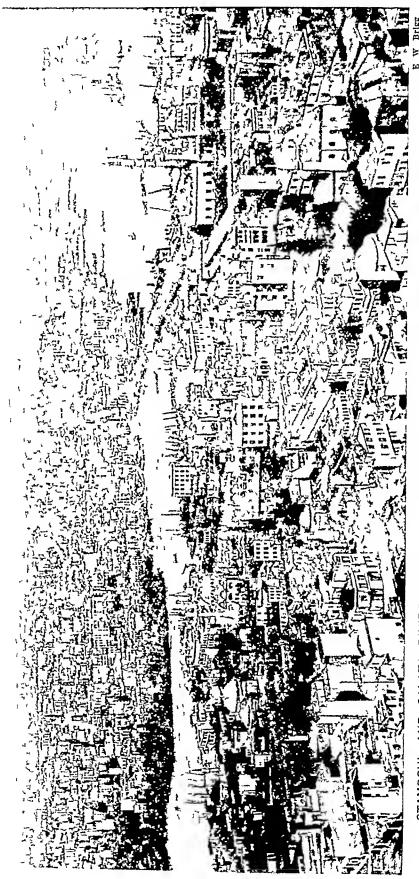
I future i Stambol i the Stav Lorat Timer which rises from the ground of the old War Office Trans the amount thir I a magnific next year Locking an south westwards over buildings the tered thickly as (nghtered h p you was a brok n line of walls against the Marmora Rent Is ces ive on laughts and worm in the of time filled about with ivy and briwn with sermoss where the ocean keeps up its never-ending legethere wall of ( in tantinople tretch in pregular line from Yeli kul h to the Golden Horn The age long struggle between East and West here reached the ummit of it frenzy and when these wall wort down before the Turk the darkest day for Christendons had come



POPULOUS SETTLEMENTS ON THE BESPORUS

Torn away from the wall Yondet at the western end of the Golden Horn I refer minarety rise beautif war left in the acre I mosque On th other all of the full typusee Khas Kour and Island the green field and then hills Nearer at hand i the er at mosume of Salyman, and down at its feet the old brider called Azab K north where plank are tottering tid bridge the cleant markly building known of all as the Turkl he Admiralty Office stand alcof with a fire disdain from the wretched streets it dominates And farther cult till within a stone's throw is the New Bridge thick with people a a field in spring is thick with flowers and as luxuriant in colour Behind this white gli tening and angular like a cubi t design are the quarters of Calsta Lera

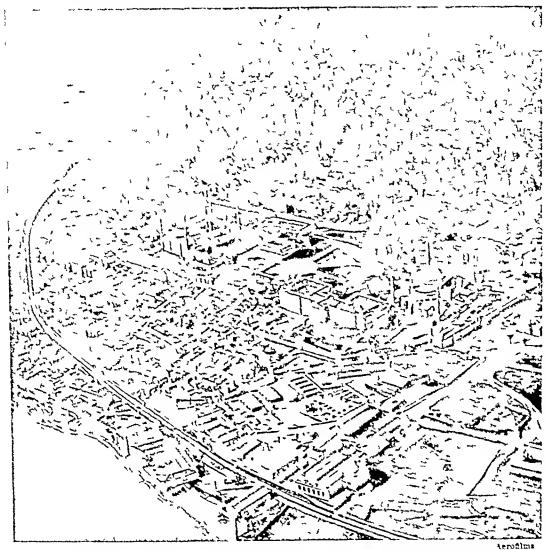
Now turn your gaze north-east along the Bosporus where mosques gleam white and wooded bills refresh us, and



This is the most crowded BOSPORUS Ancient Byzantium occupied the site of what is now Stamboul, a portion of which is seen above between the foreground and the centro This is part of Constantinople and very Turkish in appearance, whereas Pera and Galata on the farther side are the business quarters of the city makes a fine arterial harbour and is crossed by two bridges, the old bridge out of the photograph to the left and the New or Galata Bridge seen banks are crowded with shipping, as is the bridge on the seaward side. To the right of its nearer end is the dome of Yeni Valideh seen in THE DISTANT WATERS THE GOLDEN HORN, AND THE STAMBOUL AND GALATA DIVIDED BY



BATTLEMENTS WHICH DEFENDED CONSTANTINOPL TOWERS AND THE LONG LINE



STAMBOUL LIKE A MAP BENEATH THE AEROPLANES WING
Looking down over the peroplane's side as it sweeps over Stamboul the great girth of Aya Sophia
appears to the right seeming strangely squat between its four minarets, while to the left are the
cupola indicourt of the mosque of Sultan Ahmed Following the shores of the Sea of Varmora the
rulway runs towards Chatalja and Bulgaria

brown sails intrigue us South-eastward is the great white station of Haidar Pasha where starts the railway to Bagdad, and the express trees that rise from Scutari Still farther south are the Princes' Islands, and behind these, where the Marmora loses outline in a blue mist, vague shapes stretch out indefinitely, and dissolve, at length, into a soft, white horizon deep in the heart of storied Anatoha

The second division of Constantinople is that which comprises Galata, the centre of banking and shipping, and Pera the chief shopping and European quarter Briefly their situation is this

two plateaux north of the Golden Horn running more or less from north-east to south-west are divided by a steep valley that of Kassim Pasha, and bounded on the west by the valley of Kiaghat Kaneh Su, which enters the Golden Horn at the Sweet Waters of Europe, and on the south by the Golden The summit of the eastern plateau bears Pera, and at the foot of its slopes lie the offices, wirehouses, guays and whatnot of Galata Bosporus, running south-west at right angles with the Golden Horn, makes Galata-Pera the second of the three promontories of Constantinople

There is no need to describe this division fully. I alstal i the centre of the fereign trade with the child forcion bank. Illiptong agencies, warehouses and the like ituated mit treets. Out the the main thoroughfare it is an unsavoury place with narrow tone stairs use for treet, and a general tendency to outdo the wires justs of Stand all Tera cintain all the hope letter and amount of the city as well a cribb es, consultates and main limps an resultates.

The valley of Ka in La lia mu lit with jut ce be included in the division. It is reached either by twelfel i ut frem near the area of it is received with small on ulestantial leaves. West of the valley and descenting thence to the Golfon Horn are the ulutilist of khas keul and kalifel. O'ld the plateru it elf—the western of the two mentioned above—is a common. The valley of kiaphat khaneh beauding to the worth of the two they of kiaphat khaneh beauding to the worth of the two they at its fewer and the Sweet Walters of Furore.

Such are the two l'umpean divisions of Constantinople. They have similar characteristic. But a geographical and social gap divid's them both from the third division of the cry Section which best on the A tails bore of the Bespora apposite the mouth of the Golden Horne Scutari bugs the lower seaward 1 q sof Mount Bulgorla which juts into the Besporas et et of the Golden Horn and riss \$50 feet al we the sea. The division is predominantly Meleni in a position.

The Golden Horn extend from Old Scaple I and where It met the Boog an it the Sweet Waters of Lury at the confluence of two small rivers the Cydan and Barbyas the with his referred to by the Delphic oracle in the rachisector Byza, the frinder of II first settlem in I trun from each to north it with at the mouth I about one thousand varid and its course to the two trum. I for about four miles—It is broken says Strabe—flor it is broken intoways creek like so many branches.

The main harbour is at the entrance to the Horn where its north oil is funged in neath half a mile of quays extending from Colata to Tipkhane on its southern ide there is a quay about 400 yard long when ships of



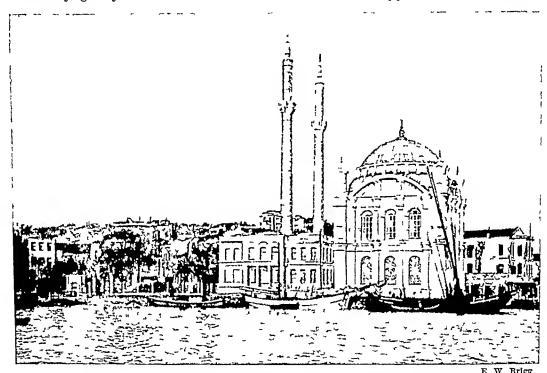
BEAUTIOUS MOSQUE OF SOLVMAN THE GREAT NEAR THE GOLDEN HORN I roaded by force or a feet by 159 feet is are and, in knowmaters of unequal height the correst, the mosping of 5-30 men the forcest are beliff during 13-30-66 by the Abs using architect. Minary bases Agus, after the place of 5. Sophis, and it cost of the finest crassified of its work. The dome By less around, in higher than the great models, while the interior is man 1 of decoration.

any draught may berth Two floating bridges span the inlet, thus connecting Stamboul with Galata-Pera The lower one, the New or Galata Bridge, serves also with additional side pontoons as a pier for Bosporus ferries and other local craft The upper bridge, which is very little used, is the Old Bridge or Azab Keupri, or Mehmed Bridge

The mouth of this inlet forms one of the most remarkable and picturesque harbours in the world. A thousand sails sway gently, or take their fill of

to danger, as if they were harnessed oven of the sea

The most important places on this remarkable inlet are Galata-Pera, already described, Kassim Pasha, a disreputable suburb presenting, in the old Turkish dockyard, a melancholy picture of ruin and neglect, Fanar, on the other side of the Horn, and chiefly interesting as the seat of the Orthodox Occumenical Patriarchate, Balat, a Jewish quarter situated a little beyond Fanar almost opposite Khas Keui and



QUAYSIDE MOSQUE OF ORTA KEUI BY THE BOSPORUS

On the steamer trip from Galata up the Bosporus one passes the little suburb of Orta Keui which stands on the angle of a bend in the channel and marks the spot where the roofs and the walls of the city are last seen astern. There are lovely gardens to visit, and the mosque, built in 1870, while on the wharf there are cafés where, after Ramadan, the fun is fast and furious

the strong east wind and bear out to sea, narrow, cushioned row-boats cut swiftly through the shadows cast by Transatlantic liners, warships look sedately grim from their favoured places, gaily-painted caïques, in shape but little altered from the ancient Argo, pass and repass with a genial disregard of modern science. Like dragonflies, swift motor-launches dart among the maze, while lumbering barges, laden, perhaps, with the city's accumulated garbage, move impervious

inhabited by Jews and Armenians, Eyub, a delightful Turkish quarter, and the Sweet Waters of Europe, a popular pleasure ground

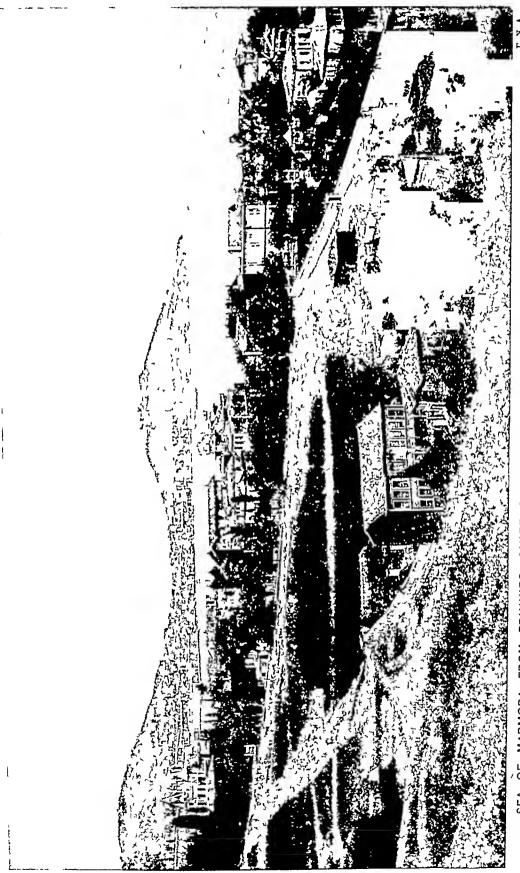
The Golden Horn is where it is, and as important as it is, because of the Bosporus, that historic waterway which links together the Sea of Marmora and the Black Sea and provides the only all-year-round ocean passage between Europe and Russia Its length is nineteen miles and its greatest width only a little over two miles Its



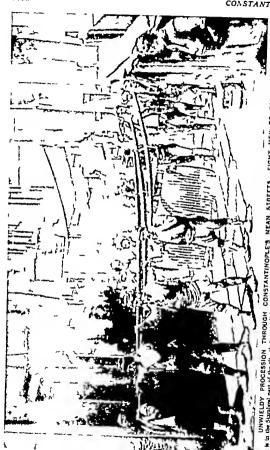
MOSDUC OF YEN! VALIDER AT THE END OF THE PONT NEUF
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GRAND BAZAAR WHOSE OLOOM AIOS THE BALE OF INFERIOR GOODS One of the show places of the cliss the Grand Rasan of Stembool, soot far from the southern end the here lived to Interface the later fixed by the control of the later fixed the control of his of Control of the later fixed by the the l



Off the shores of the beautiful gulf of Ismud he the Princes' Islands There are nine of them, four being inhabited, and they are about 12 miles from Constantinople. This photograph was taken on the largest, Prinkipo, a resort of trippers, containing the capital of the same and are Across the water is Halki, with its twin hills, and in the distance are the hazy outlines of Proti, where the excursion steamers call. The islands are extremely attractive with their red cliffs and are famous for a In the distance are the hazy outlines of Proti, where the exeursion steamers call. The islands are extremely attractive with their red cliffs and are famous for pleasant climate, though one, Oxia, will ever be associated with the horror of the pariah dogs from Constantinople marconed there in 1910 and left to die ISMID LOVELY ISLANDS, PRINCES' OF THE OF MARMORA FROM PRINKIPO,



general direction is from north-north-east to south-south-west, it varies in depth from 20 to 66 fathoms and the speed of its current averages about 2½ knots, save in the narrows and at windings, which produce many counter-currents and whirling eddies. The north-east winds of the Black Sea are held chiefly responsible for the fact that this current sets in almost invariably from the Black Sea to the Marmora, it has been known, however, to run in an opposite direction

## Along the Shores of the Bosporus

An abundance of fish, including tunny and luffaire, which are peculiar also to the Marmora and Mediterranean, is found in the Bosporus, over its waters skim the gulls familiar in Western ports, as well as a species known as the Levantine Shearwater. These are small thrush-like birds that seem to be for ever restlessly upon the wing, flying close to the surface of the sea in what appears to be an endless chain.

On the European shore of the Bosporus there are fifteen stations, on the Asiatic side thirteen They can all be visited by ferry-steamer, which is more practicable and comfortable than by road, and many are both historically interesting and naturally beautiful Bebek, where there is an English and American colony, Yeni Keui and Therapia which contain the summer residences of several ambassadors Biyukdere and Beikos—all are resorted to in summer Both shores are lined with palaces but the Asiatic side presents a striking contrast to the opposing shore, both in vegetation which is more abundant and in the character of its villages which are more strictly Oriental

## Stream sed Belgrade I orest

There is, however, on the European side i furly considerable forest. It is known as the Belgrade Lorest, is reached from Bivukdere and stretches thene to the vicinity of Like Derkos Its trees, which are chiefly oak and chestnut but include some beech

plane tree and pine, do not reach any considerable height. That portion which is actually forest is about 17 miles in circumference and harbours pheasant and roebuck, while the streams which thread it provide a refreshing greenness and assist the little cultivation by which the area is characterised.

Let us now briefly observe climatic conditions and what results The seasons in Constantitherefrom nople are much the same as in England, that is, spring from April to June, and summer thenceforward to the end of August, followed by a delightful autumn which usually resolves itself into winter somewhere about the middle of Novem-It is, on the whole, a healthy climate, though damp and fitful, being subject to irksome variations of temperature especially in winter when bitterly cold days frequently alternate with days that are warm and, on occasions, sultry Conditions such as these render five months of the year-November to March-dangerous to people of sensitive constitutions

## Dangerous Variations of Temperature

The average temperature in winter is 53° F for Stamboul and 55° F for Scutari, but it frequently rises well over sixty or drops to freezing point Snow is by no means infrequent and has been known to fall so heavily in January as entirely to disorganize traffic for several days. The average summer temperature is 99° F for Stamboul and 103° F for Scutari, but this fairly high average is created by the intense heat usually experienced in July and August when the thermometer frequently for several days at a stretch leaps over the 100 mark Finally, those in search of a mild climate should not choose Constantinople in winter when rain sleet and blizzard transform it into a very trying, dull and dirty city May, June and September may, however, be relied upon to provide almost faultless weather

The climate is, therefore, more or less continental at a not the

CONSTANTINOPLE



DIRT AND DILAPIDATION IN A BAZAAR OF STAMBOUL

There are miles of stores in the Bassis on rive of Standoni, many correct one and nost of them croated and merican. Only the power extravel responsible the weighty expecting the goods to be leought to them. Or forequery, there are plenty being excepted by dongwains to the shop of some ender of authors fresh into the factory while enery kind of article my be found in it so on all only the contributions.



GRANDE RUE IN PERA, THE PRINCIPAL BUSINESS STREET

The Grande Rue runs right through Pera and follows the watershed between the Golden Horn and the Bosporus for about three quarters of a mile to the Place Taxsim—the name means water station—which is close to the Park Taxsim—This street was almost entirely destroyed in the fire of 1870, which accounts for the comparatively fine buildings in it that replaced the Turkish houses

temperature one would be justified in expecting from a city in Constantinople's latitude, it is colder than Marseilles which is on the same latitude, and colder even than Trieste which is farther north. The prevailing wind is north, and comes down from the Black Sea. In January, February and March it frequently comes with startling vigour, in the form of blizzards which, fortunately, often blow themselves out in an hour or two

The various races that make up the people of Constantinople are so clearly defined that one cannot detect any common traits due to the climate

Their occupations are those of any great ocean entrepot Shipping, warehousing shopkeeping and tributary trades form the bulk of the city's commerce, and the merchandise which comes to its ports is that which is familiar the world over -wool, timber, wheat, silk, oils, hides, mohair and so on, with little that The district might be called unique around Constantinople is chiefly given over to market gardens which provide the principal portion of the city's There are factories necessitated food by the railways and tramways of the city and a few others for the production of glass and soap, and it is estimated



OALATA TOWER FROM BEYOND THE NEW BRIDGE

(b) tree gill Sew Biddle from Standard to Cal to one even of this bypars and is the tree
tigs be wort of the Yadawi bidnes which be my bound to seld to dails fower. The
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that if the required commodities of coal and raw materials were forthcoming the existing works of Constantinople would be able to produce twenty five ton of metal products a day

This description of Contantinople brings me naturally to the European area it dominates which is a unit politically and geographically because it is defined on the west by the invertearity on the north by a line of protecting hill and on the other two siles by the sea. It is composed of a series of undulating plains which more or less form one large plateau falling gradually from the Istranja Mountains on the

east to the Marmora and the Argean and is thus a compact naturally strong darkion. Its bort frontiers are their own defence—river maintain and sea—and its chief city. Constantinople at its south-eastern corner is shut off if need be from the rest of I urope while in a position to draw its supplies from the mines and gardens of Anatolia.

The western brotter of this area has undergone some modifications in past years but the Conference of Lausanne in 1922 restored to Turkey its natural western boundary the Varitza river Thus the whole area remains a compact unity welded together by masses of

gneiss and granite which uprise to form the range of the Istranja Mountains. This great feature begins in south eastern Bulgaria and their runs southward as a high wall directed towards the Black Sea, steadily rising till it culminates in Biyuk Magkiada (3,395 feet). Its direction is then south-east along a line which varies from twenty-one to eight miles from the Black Sea

### Configuration of the Istranja

When it reaches the vicinity of Kara Tepe it throws out an arm south-westward which is continued along the Marmora coast into Gallipoli, but its own course lies south-eastward to form the Chatalja Peninsula, which has Constantinople at its extremity

The Istranja descends more gently on the south-western side. Where it forms the Chatalja Peninsula it is, behind what are known as the Chatalja lines, an irregular plateau riven by parallel valleys. Where it faces the Black Sea it continues to render the coast almost maccessible, but on the Marmora side the shore is indented by river mouths that form valuable estuaries.

When the Istranja reaches the vicinity of Kara Tepe there begins a series of hills which include the Tekfur Dagh, the Kuru Dagh, Yaila Dagh and the hilly chalk and sandstone region of the Gallipoli Peninsula Their direction is to the Sea of Marmora, near Rodosto, whence they spread west and north to form an uneven plateau Tekfur Dagh is separated from the area of Kuru Dagh by the Sayan Dere, which later flows into the Gulf of Xeros as the Kavak Both these regions are higher than the third, the Yaila Dagh, which is enclosed on the west by the Ergene-Maritza junction and on the east by the headwaters of the Ana Su

### Water-scarred Gallipoli Peninsula

The fourth region is the Gallipoli Peninsula, which runs from Bulau at the north-eastern end to Sedd-el-Bahr at the south-western end, a distance of 47 miles it varies in width from about twelve miles to three miles and is separated from Anatolia by the Dardanelles. The hills in the interior of this region are of chalk and sandstone, which the action of winter streams has cut into deep ravines. The north ridge, running south-west to north-east, maintains a series of heights in the vicinity of 1,000 feet, culminating in a peak which rises to 1,398 feet. On the Dardanelles side the heights, commencing with 147 feet at Sedd-el-Bahr, rise gradually to 997 feet just east of the Chamli Dere

There is no navigable river in Thrace, if we except the very restricted opportunities of the Maritza, which can be penetrated by barges as far as Adrianople From Adrianople southward its course is for about 90 miles, during which it is subject to a slight fall. Its main channel meets the sea at Enos, where it is flanked by salt lagoons, but its chief port is Dedeagatch

## Weather Sequence in Thrace

Just west of the Yaila Dagh plateau the Maritza receives the Ergene, which, rising west of the Istranja Mountains, drains the great central plateau of European Turkey Where the Maritza turns west, at Adrianople, it is joined by the Tunja, which, after flowing for most of its course through a deep cleft, widens to form the basin of Adrianople

Actual scientific data concerning the climate of Thrace are meagre, but ordinary observation establishes pretty clearly the sequence of the weather, which is not much varied from year to year. Spring begins in April with a considerable diminution of the winter rains, the climate then slips, without more ado, into the dryness and dust of summer. These summer months, from the middle of May to the end of August, are, however, frequently diversified by very heavy thunderstorms.

The winter is the rainy season, and wet weather makes its appearance as early as September, creeps more forcibly into October and November, reaches its zenith in December and January,



onstantinople curich S Sophia

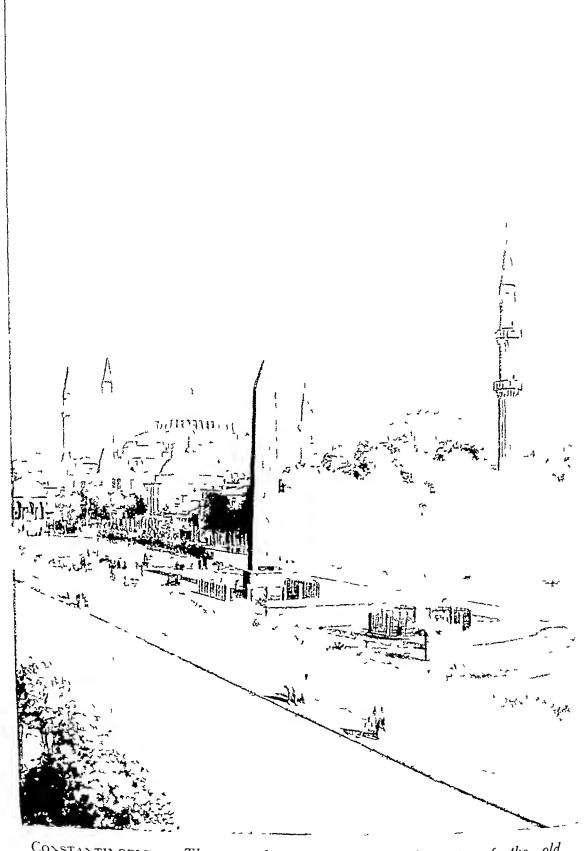
Rare marbles from all over the Roman world This is the gallery at the base of the dome



CONSTANTINOPLE Dark cypresses stand among the tombs at the cemetery of the most holy Mosque of Eyub by the Golden Horn



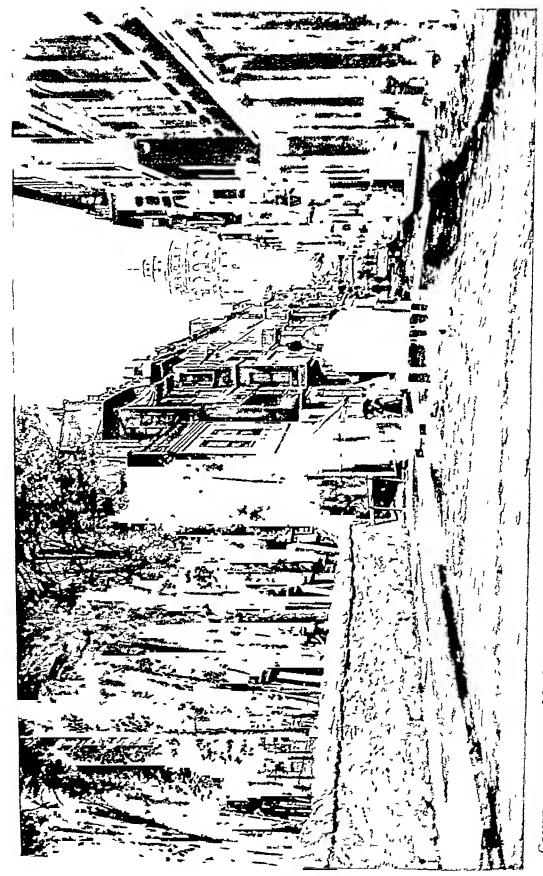
Co STANTINOLLI. In the main street of Sentari the suburb over the Bosporus is the Bixuk Jami er Great Me que built in 154,



Constantinople This is the Atmerdan on the site of the old Roman hippodiome, where two obelisks still mark the chariot course



Behind is the Mosque of Thined with S Sophia on the left the chirch founded by Justinian in 532 and made a mosque 900 years later 1473



Constantinople Marking the intersection of the east and west walls of Galata as they stood in fifteenth century, the Galata Tower, built by the Genoese, 148 feet high, affords the finest view of the city



with its current h ir Wirmers the rail ; f the Vo tem consters Constantivolle. On a full overlooking inc through the Bixink We arridan the largest



ISTANTINOPLE II here the Bosporus narrows to 722 yards the increased current is called the Devil's Stream. The towers of Rumeli Hissar, built in 1452, face the fortress of Anatoli Hissar on the Asiatic shore CONSTANTINOPLE

and maintains a faith even average until April when it exputes in fitful howers.

The vegetation in such a climate in an area freely watered by innumerable small treams and with a soil that is often of a tom ling lettility should be rich and abundant but is actually nothing of the sort. The agricultural and pasteral opportunities have been weefully needected save for one or two fulle mobigotten attempts by the old administration to foster industry, and indeed there has been no senious attempt to explosi even the least and most early coaxed of the resources.

At present the country between the over Livene and the Tekfur Dach produces more grain than is required for its own uses and hodosto under normal conditions, exports over £200 coo In the region of the Istrania Mountains sufficient outs wheat and maize are grown to supply local needs a numerous quantity of livestock is The central plains also maintained including the Maritza valles, which is "as little cultivated as it is naturally have a number of multierry orchards some tumber in the region of Enos large cattle and buffalo herds near Ipsala and considerable grain in the district around Adrianople and in the hazas of Haysu and Rodosto.

Gallipoli is chiefly agricultural and paytoral though sparsely inhabited and little cultivated in the south west corner lts only town of consequence is Gallipoli which supports a flour mill with blal be farther south growing rapidly because of the industry of the Creek larmers pa toralists and fishermen. This penusula is not so burren as is u utilly supposed and could support a very much larger population

With the exception of the main artery connecting Con tantinople with the west via Admanople the roads of Turkey are exercible almost all of them being merely cart tracks or bridle-paths which in aniter frequently lose their identity in muddy awamps. Metalled roads connect Admanople with Choilu and Con tantinople Balia Eski and Kuk hillise. There is a metalled road from Rodosto to Ferrjik and a second one to Muradii and another between Bijuk Clickmeig and Derkot.

The main railway line of the country also connects Furnpe with Constant throple via Vdrannople and there are branch lines from Baba F-ski to Kirk kilisses and from Kuleh Burgas to Dedeagatch. But here also there is rome for great Improvement in order to enable produce which is transported in primitive fashion to reach a market with relative cheanness.

Given good communications a little more amblifon and indu try in the multibliants who are inclined to be very lary and up-to-date methods of farming. Thrace could achieve a prosperity that would very soon raise us chief city almost as high in the sphere of commerce as it always has been in the sphere of politics.

#### CONSTANTINOPLE GEOGRAPHICAL SUMMARY

Natural Division Payange way between the Bilkans and the Asiatic platean of Anatolia. The coastines bear evidence of the foundering of adjacent masses. (Cf. Crete) The Boopers and Dardanelles are comparatively recentage geologically—fractures in the earths crust as is still indicated by the parallel into of their opposing shores. The lower Maritta valley now smaller than in earther those dates from the tertilary period

Climate Mediterranean dry droughty summers from May to August uniter rains and snows from October to March, and short transition periods of spring and autumn. The area is a passage way for the continental winds from the Russian steppes, especially the piercing dry winds that cause such lutter cold in winter

Products Cultivation is backward the yield of wheat, malre and outs could be increased cattle rearing could be improved. Timber allk grape-produce might become valuable under careful and systematic development.

Communications. Railway routes necessarily centre on Constantinople the Orient Express the Berlin Bagdad scheme The sea route inevitably implies the free navigation of the straits.

Outlook Everything depends upon the removal of the blight caused by the Dead Hand of the Turk



homes in this animated centre of Denmark's life, which iphotograph lies the octagonal Plads or Square embellished inhabited by the king—I nown as the Amalienborg Palace to several sovere conflagrations the older wooden buildings have been swept FREDERIKS SHOWING THE GREAT DOME 600 000 persons have their Although an ancient city, Copenhagen presents quite a modern appearance, for owing numerous noteworthy buildings and enclosed by four uniform t Over stone edifices away and their sites occupied by substantial brick and comprises several suburbs and is dignified b with a bronze equestrian statue of Frederick

#### COPENHAGEN

## Denmark's Pleasure Loving Capital

### by Frederic Whyte

Author of "Gothenburg" etc.

NOPENTIACEN for most of us is and will always be the city of Hans Inderen although he was not born there but in the more ancient town of Odense. This I regraphers have not been of one mind as to how far the creator of the Lgh Durkling was thinking of himself when he wante that immortal little story but beyond question it reflected most aprily lif own career. The awkward ragged looking unpreposes ing less who journesed to Copenhagen a little more than a hundred years ago and who as he tells us made straight for its families theatre, walking round and round it garing at its walls wistfully wonderingly not altogether unhopefully as at a home some day perhaps to be open to him -that quaint nely duckling of humanity was to be Corenhagen a most illustrious citizen

We cannot dwill here upon Hans Andersen's experiences in the capital—they will be found recorded in his auto-biography but just as no one can calim really to know London who has not made himself familiar with the haunts of such great Londoners—hom or bred—as Lamli and Johnson Drekens and Thackeray keats and Carlyle so no one really knows Copenhagen who cannot look at it through the eyes of the lingenous young pilgim of genius who arrived in It in September 1819.

#### I the Tracks of II as Andersen

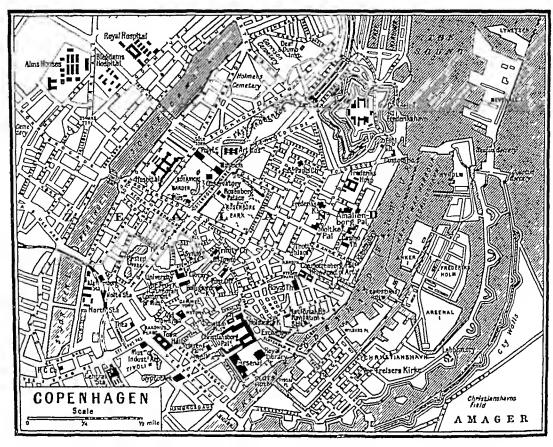
Ingenuousness seemed his out standing characteristic and there is no guersing what misfortunes might not have encompassed him had he not been a favounte of the fairles it was just like him to seek his first lodging in the Ulkegade the street of worst repute in the whole city and to give his heart at first sight to the sly old landlady who was presently to fleece hun. No more delightful plan could be devised for exploring the Copenhagen of to-slay than first to seek out that historic site and proceeding thence to the Royal Theatre to vill one by one the principal scenes of Hans Meyern's adventures.

#### A Capit I Without Competitors

To a greater degree perhaps than any other city in Furope Copenhagen is the main pring of the country of which it i the capital in almost all other countries there is at least one second lag town which make the pace for the capital or which in some important re peet challenges comparison with it as Clagow does with I-dinburgh Gothenburg with Stockholm but in Denmark Copenhagen stands unnvalled and supreme. It is the seat of govern ment and the headquarters of the army and navy here the king lives and holds his court here is the university and as its very name suggests-for Kibbenhavn means Merchants Harbour -here Is the very centre of Denmark a extensive commerce.

The city is very pleasantly situated. It hes partly on the quite fial eastern shore of Zealand partly on the northern extremity of the small island of Amager separated from Zealand by the narrow arm of the sea which forms the city s harbour. This south-easterly portion of Copenhagen is called Christianshawn Although It has in it much to interest most visitors leave it unexplored. The rest of Amager is noteworthy above all, for its wealth of Iruit and vegetables. It is Copenhagen s kitchen garden

Until 1863 Copenhagen was confined inland within fortifications, but since COPENHAGEN 1480



COPENHAGEN LIKE A SECOND VENICE AMID ITS CANALS

then it has extended in every direction and now includes, to the north and west, four extensive suburbs. To the north of the channel-shaped harbour a great "free port" was constructed in 1890-1894. The commercial quarter is located to the south and south-east of Kongens Nytory, literally King's New Market, which is the heart of the city, with no fewer than thirteen streets radiating from it in every direction.

Kongens Nytory, connected with the harbour by a canal-like extension flanked by picturesque gabled houses, is one of Copenhagen's oldest and most picturesque "bits". Northwards and castwards of it are straight, wide, handsome, comparatively modern streets, conspicuous among them Gothersgade and Amalica de Amalica de on its north eisterly way takes us to the key'd Palac a symmetrical building in hear copial parts of which one is tabilitied by the large and two by other to the family, the fourth being

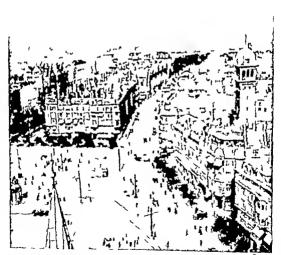
used only for ceremonial purposes and comprising the coronation room Parallel with Amaliegade is Bredgade (Broad Street), with the palace of King George of Greece and other handsome buildings, such as the one known as Moltkes Palais, which contains a fine collection of eighteenth century Dutch paintings. At their north-castern end these two main arteries reach Copenhagen's old citadel, beyond which extends the city's beautiful and famous esplanade, Lange Lime

Gothersgade, which makes at Kongens Nytory a right angle with Bredgade, cuts off the whole of this spacious rectilinear, relatively new Copenhagen, with its parks and palaces (among them the palace called Rosenborg, which is now a really wonderful his torical museum), from what we may call Copenhagen proper—the Copenhagen known to Hins Andersen—with its confusing, network of narrow streets and winding alleys. Lyen this old

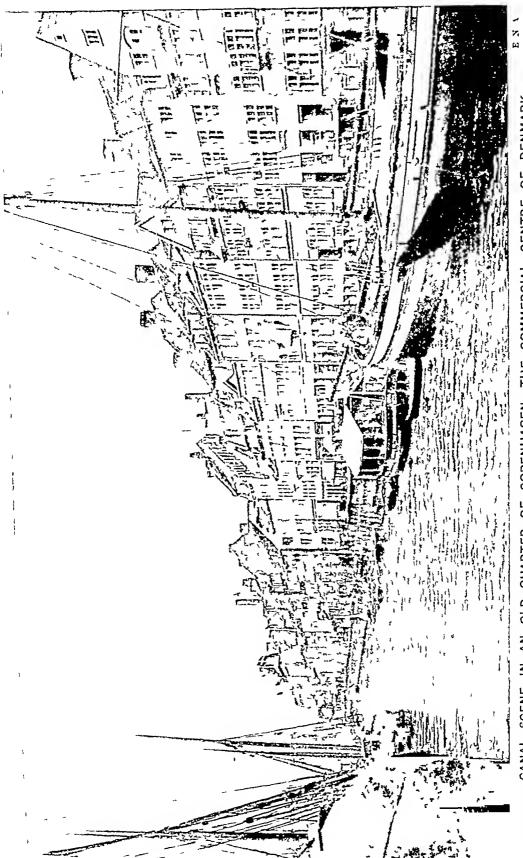
portion of the town is not to very old Although its hi tory goes back to the kedith century when its site was presented in Valdemar I of Denmirk to Misalon the famous hishop of hoskide Copenhagen has very little of the medieval city about it. Minost all its most ancient buildings perished in conflugrations or were destroyed by bomburdment terril be damage was effected by Bruish cuns in No?

kongens Nytory itself dates from early in the symmetrilly century. The palace of Charlottenborg a massive rather di mallocking cultice hard by which was devoted by Fred rik. I to the purposes of an academy of arts dates from 16°. The street cilled Holmens kanal which wind its way in a south westerly direction from kong in system takes us presently over a bridge to the semi-oblong island Slot holm (Ca the I land) upon which Bishop Absalon built his castle in 117° A century later Copenhagen was again in royal hands, but it was not until 1731 that this spot was chosen for the cirction of Christian borg most magnifect of Pohmerk's royal palaces.

Christian borg was destroyed by fire in 1791 and was rebuilt but it was burnt down again in 1884. In 1993 it was

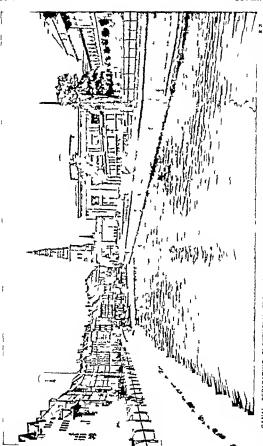


PLEASANT CORNER OF COPENHAGEN FROM THE TOWN HALL TOWER REACHEN Holds, or 10 Hall Square the forms of the trans ayes ten, it busy centre particularly for the first town town the think town of the transportant suborn of irradicular This manufacture for the transportant town of irradicular This manufacture for the transportant town to the town to be the transportant town to the town to be town the transportant town the transportant town the transportant town to the transportant town the transportant town the transportant town to the transportant to the transportant town to the transportant to the transportant town to the transportant to the transportant town to the transportant to the transportant town to the transportant town to the transportant to the transportant town to the transportant town to the transportant town town to the transportant town to the transportant town to the trans

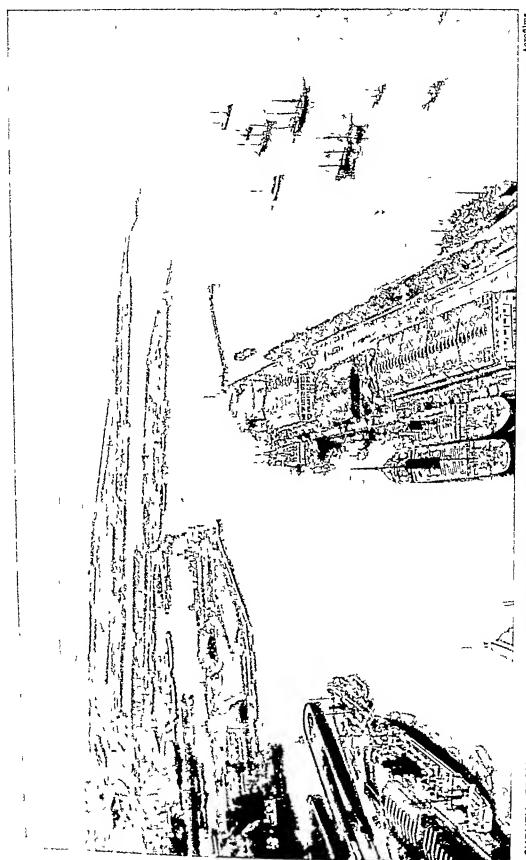


As the largest naval station of Denmark, Copenhagen has an extensive trade, and imports and exports more than all the rest of the kingdom put together. The most important industries include ship building, distilling, brewing, sugar refining, fishing and the minufacture of textile fabrics, porceion articles, planos, clocks and among the staple exports are dairy produce, grain, beef, hides, wool and coal. This is a part of Copenhagen's oldest and most picturesque quarter, and the substantial looking houses flanking the street overlook the canal like extension of the harbour which enercles Slotsholm OF DENMARK CENTRE COPENHAGEN, THE COMMERCIAL SCENE

1483



In the central distance is the Gammelstrand, near which ministrous fishing-boats are moored while Christiansbory Palace, a portion of which is bere seen to the extreme right, compara a large ROM BEPARATING



Copenhygen, the famous scaport and capital of Denmark, is situated on the eastern shore of the island of Zealand and on the northern extremity of the rulpining small island of Amager, which is separated from Zealand by the Kalvebodstrand, a narrow and deep branch of the Sound To this waterway Copenhagen owes its prespent; in trade—It is divided into the commercial harbour and the naval harbour, while north of these and of the Chadel of Frederikshavin is found the naval water port opened in 1894—Part of its castern mole is seen above in the central foreground, showing, on the right, the Lange Linie COPENHAGEN THE SOUND AND OF THE NEW FREE HARBOUR OF FROM THE AIR OF A BROAD STRETCH OF SURVEY

decided to rebuild once more one portion of it being set and for the sovereign one for Parliament and one for the High Lourts of lustice To the eat of this imposing new structure stands the Fx lange dating from 1010-1010 This is one of the best preserved of Copenhagen s older edifices. It has a quite unique spire formed out of the entwined tails of four dramms whose lwads point outwards north south east and To the south of the lachance also on Slot bolm is an archalcontamine a remarkable collection of ancent ormour On the other side of the island is the Thorvalden Museum with its semi Egyptian

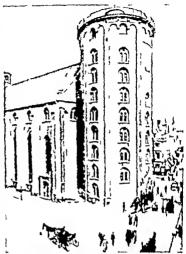
semi Etruscan externor

\( \) ramble westward

and northwards from
Slotsholm and its en
circling canal will enable
us to glance at the half
dozen or so other build
lngs, old or new which

no self respecting visitor can allord to mess first lumediately in front of Christiansborg Prinsens Palars, now the National Miscoum notable chiefly for its ethnographical section then Copenhagen's cathedral Vor Frue Kirke (Our Lady's Church) restored in 1811 1829, with its Chirst and Apostles but with a Distoryaldsen and, quite near it the university rebuilt in 1836 but with a history going back to 1470

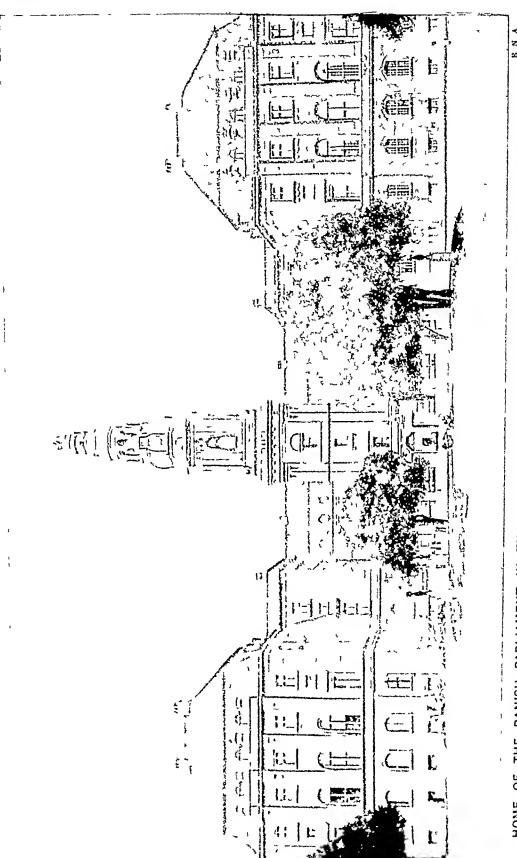
In the same neighbourhood is the Trinity Church with its Round Tower 111 feet high. This tower has Insade it a wide spiral way up which Peter the Great is said to have driven in a carriage and four. It is Copenhagen a archit tectumi curiosity. You will not spend



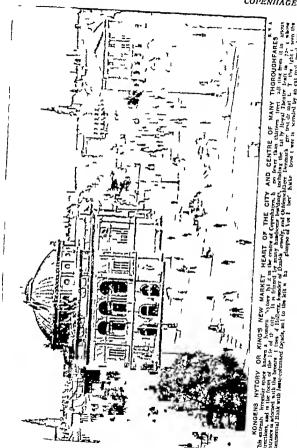
HISTORIC ROUND TOWER" OF COPENHAGEN
Both the Church of the Trinity and its notable Round Tower
ery built is the respect Christ will. The tweet, tris set high
regarded Copenhagen architectural car with ascended by
boosal paral way and command an extension for

many hours in the city before someone soles you. Have you seen the Round Tower? When you have made acquaintance with all these buildings, and the nex koyal Library in Christians, and in the Autional Bank and the Royal Theatre (we are now returning castwards again to the vicinity of kongers Aytors) you may claim to have almost done. Copenhagen.

Almost but not quite. There are two important art galleries which have yet to be visited one of them in the modern quarter which lies north of Gothersgad. the other known as the Glyptothick, to the west in the same region as Copenhagen's great central radiway station and magnificent modern modern



So fir Lick is the twelfth century a cristle reared its head on the fortified island of Slotsholm Several centuries later, in 1731-45, the Castle of Christiansborg—the rivel triangle of Danish rotal places—wis erected by Christian VI on the same site, but it was destroyed by fire in 1794 Rebuilt by Hansen, it was again rebuilt, and, although the actual residence of the king is at the Anniet, the benutiful educe of Christiansborg is used on occasions of state, while the imposing portion seen above houses the Parliament of Denmark BNA THE



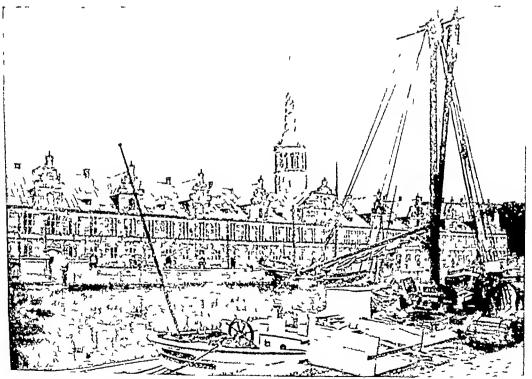
town-hall and the world-renowned pleasure gardens of the Tivoli. In the Glyptothek is harboured the wonderful collection of works of ait presented to Copenhagen by a wealthy brewer named Jacobsen, one of its most public-spirited and benevolent citizens. Quite close to it is a little gallery devoted to the arts and crafts of Denmark.

COPENHAGEN

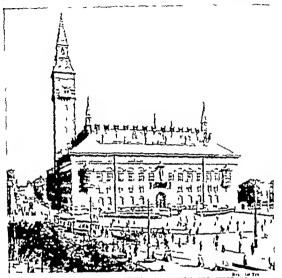
Architecturally Copenhagen is a city of individual and almost unrelated No single building stands out commandingly in it like the Royal Palace of Stockholm or like Cologne Cathedral or the Brussels Law Courts or the Belfry of Bruges In addition to the stately palaces and churches and other structures of note which have been mentioned it is rich in charming nooks and corners, delightful glimpses of picturesque old walls and red-tiled roofs and semi-Venetian waterways But there is no unity, and nowhere not even from its Round Tower-do you get a satisfying view of it as a whole

While Denmark is essentially an agricultural country and most of its inhabitants are wisely content with a liealthy and prosperous existence upon the land, more and more every year the ambitious no less than the pleasureloving are being lured by the capital There are two very distinct aspects of Copenhagen life, and when asled to give a description of it one hesitates as to which of the two should be accorded the more prominence one to begin by talking about its clever people, old and young, about the university and its traditions, about the Royal Theatre and its high aims and fine achievements, about the admirable Danish schools? Or ought one to discourse rather upon the Tivoli and its thousand and one attractions, its cycle races and circuses, its icecreams and coffee and cakes?

There can be very little question but that its Tivoli and dancing-halls and cafe-concerts constitute Copenhagen's



ONE OF THE BEST PRESERVED OF COPENHAGEN'S OLDER EDIFICES
The Exchange, a long, many gabled building creeted in 1619-40, lies on the canal to the cast of
Christiansborg Palace The long gabled façade and small dormer windows give a picturesque touch
to the otherwise unimposing pile, but a grotesque note is struck in the 165 foot tower, whose lofty spire
consists of the entwined tails of four dragons with heads pointing north, south, east and west

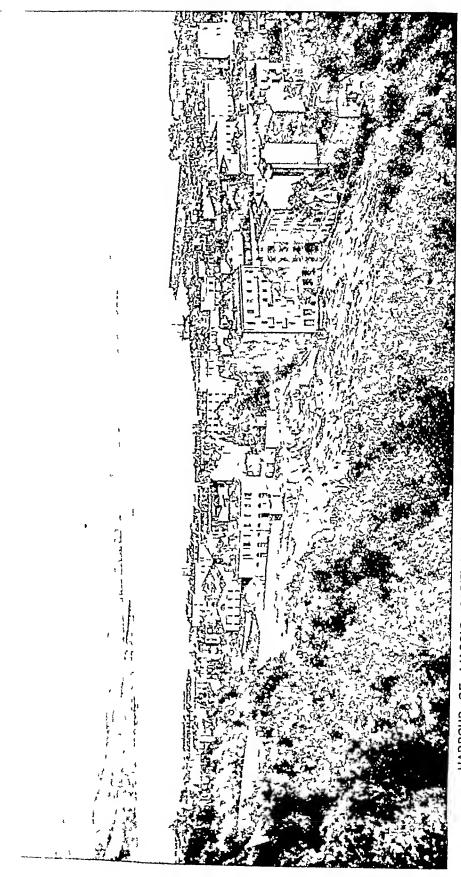


FINE SPECIMEN OF CONTEMPORARY DANISH ARCHITECTURE
The new tow, Laff of greaters, complying its 1-p1 in the Ra B. The line is an impressibilitie and parabolities a surface of the theory is a surface to the contemporary in the surface to the contemporary in the surface of the contemporary in the surface of the contemporary in the surface of the contemporary in the c

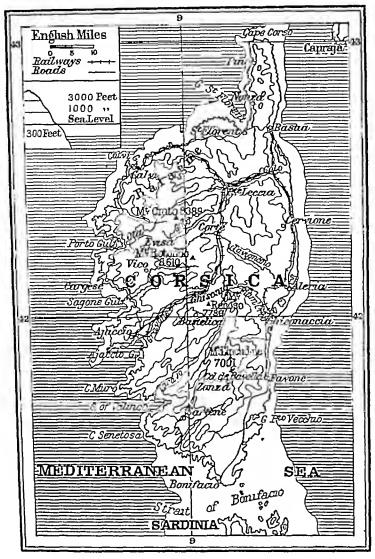
chief charm in the cyts of the Danish country fell, who are being swept into its fold. The Danes taken as a whole are among the most pleasure loving of races and they enjoy themselves thoroughly in their lively cosmopolitane capital. One thinks of Copenhagen primarily as a centre of cheerful well behaved divigation. There are any number of festivals in the Danish year and every family cel brates in addition its own birthdays and not letter days.

Yes it will be admitted faughingly even by the most serious-minded of Danes that the citizens of Copenhagen set more store by its amenities and galeties than by its art treasures and historic associations. There are fercities so fortunate in their surroundings. There are glades of almost incomparable loveliness in the great Deer Lark which extends along the Sound a few miles to the north of Conenhagen.

That strong-minded hady Mary Wollstonectralt who vided Denmark a century or so ago was firsted in several ways by its inhabitants who as one can easily imagine were not her sort they vexed her especially by declaring that their country was the happaest in the world and perhaps their boast was not so ill founded.



1811 by Napoleon, though founded by the Genese 300 years earlier. It is a quet place on a wide indentation of the western coast, and does little but cater for visitors in the winter, although there is a certain export of wine and oil, sardines and cheshnuts. Here we are looking out, from the hillside behind the long, struight Cours Napoléon, over the town in the foreground and the wide panorama of the gulf, the citadel is on the right at the base of the breakwater Corsica has had several capitals in its day, according as Pisans, Genoese, French or the Corsicans themselves dominated the island Ajaccio was made the capital in DECREE OF ITS MOST FAMOUS CITIZEN OF CORSICA BY A CAPITAL



GULFS AND HEADLANDS OF ROCKY CORSICA

middle of June, when the landscape offers an entrancing sun-lit picture of flowers, green slopes and dark woods backed by the still snow-coated summits

The climate being typically Mediterranean, it follows that the vegetation is also typical of this region, that is, it consists of plants which have the power of resisting drought during the warm part of the year These plants may have thick fleshy leaves to diminish loss of water by evaporation, or bulbous roots where reserve stores of moisture may be accumulated, or roots that penetrate deeply in search of underground supplies The mild winter permits ilmost continuous growth, and both bushes and trees are evergreen

The characteristic growth is a kind of thicket " maquis," the called of arbutus, made up myrtle, cistus and great flowering heaths clothes the island from base almost to summit, and in the spring, when the various shrubs burst into bloom, the hill-sides are a mass of flowers Under the hot sun a peculiar odour is exhaled which is so powerful that when the winds are off shore it can be detected far out at sea

Where the rainfall is heavy enough there are forests of larger trees, including chestnut beech, cork-oak and pine, fir, cedar and cypress The name of the island means "land of woods," and points to a time when Corsica was densely forested more than it is at present Much of the ancient wooddisappeared land has under the influences of fire, the woodman's axe and the omnivorous goat

The summer drought prevents any general distribution of grass-land or meadow, in place of grasses we have plants with underground bulbs and tubers such as the iris and the arum, which for a short season add another touch of loveliness to the countryside, but die down in summer, leaving areas almost bare of any kind of vegetation Absence of grass means absence of cattle, with the consequent absence of butter as an article of diet The place of butter is taken by olive oil, the place of the cow by slieep that can feed on very poor pastures and goats that can feed on almost anything

Owing to the fact that coal is absent and other minerals are but little



Consica From an old Genoese bridge over the Fitum Orbo by Chisom there is a grand view of the river rocks of Kyrik Ellison



It was descendants of Greek refugees from the Morea who founded, in 1774, the township of Cargese with its two churches by the sea



CORSICA Bonifacio, built by a Tuscan noble in the ninth century, stands on a scarped promontory guarding a narrow roadstead

1494



Nowhere is the mountain scenery of Corsica mort rugged than in the Col de Bavella on the winding road from Zonza to the sea



CORSICA Corlé nestling beneath viz rocky citadel in view of Monte Rotondo was once the native capital of the island under Paoli 1495



Corsica Glimpses in the old quarters of Corté, sloping down from the citadel to the river Tavignano, are altogether delightful 1496

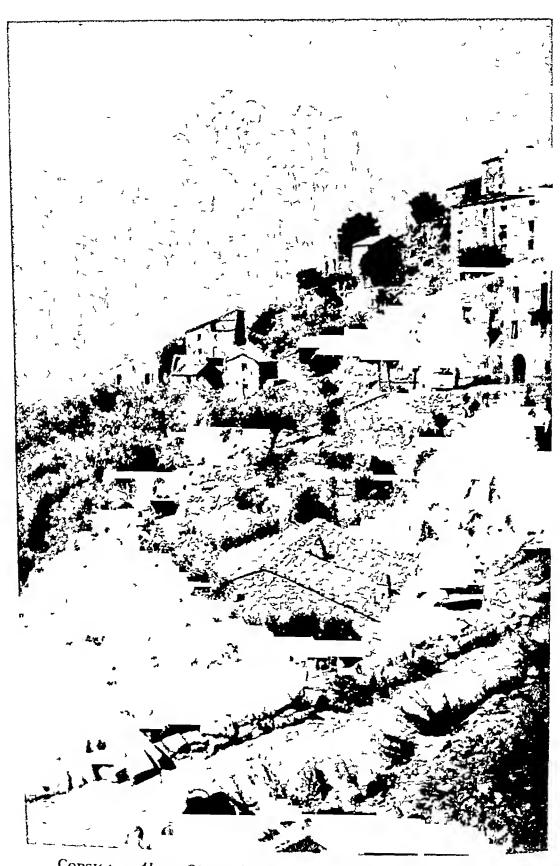


CORSICA Climbing up the sleep road from Bastia inland to the mountains this donkey and its rider pass beneath an old stone arch



the loveliest islands o Corsica Not only its mountains, but splendid forests render Corsica one of the loveliest islan Mediterranean Evisa, inland from the Golfa de Porto, is on the borders of the chestnid forest of





Corsica Above Ota, a beautiful mountain village not far from Evisa, towers the sharp-fanged peak known as Monte Signore 1500

explained the only occur stransate there concerni with the forest and with acri-The most Militratesia enituation are wheat claim and the size and where there at in nt all sarred in the ica the psychitim is Session 1 The in the win di to t of Care Ceres and the cine gones of the Italiane in the north west there are rumenan i mulation centres and one entilly at Calvi

In the northern Liva Jame is cleanal. country a natural fatter, with deepnammi valley and cally according from the sea. Here the white his of the community I I real on the electruit the front is almodant in quantity and ft prinades requires no cultivation. Pour for bread and for "polenta kind of twender and it enalled the terms, as a whole to test the pres ure of foreign invalent and the lands to nest the presum of the police. Other occupations connected with the least are the manufacture of charcoal of corks especially at Homifacio and the preparation of the heavy aid rost of the brusser " for further tran formation into "I rench " brure

#### Tremport by Mule and Motor

It will not be expected in a mountainous island, thickly clad with wood and thicket having little to export and where isolation is the k smote of the life of the communes that either made or railways will be aloundant or excellent There are however pood well engineered roads connecting the four ports, Ajacelo Calvi Bastla and Honl facto and there is also rallway communication between the first three of these. The common means of transport is the mule-drawn dilicence though there are motor services between the principal centres.

Preemment among the native centres is Corté the ancient capital in the centre of the island and in the very heart of the mountains. You may wander here for days amidst a circle of gorges ravines and great grante hills and never meet a single huntan being. The houses of the lendal capital tree tier above tier up the all of a steep crag crowned with a filteenth century cited I claim posine and I altidine a text the was to which her threuth creeked allers manure-be up and rules of reluse

## Also Feet and N if a Villeter

The three that one their orient to Invader who came by wa are naturally ports. The Romans had a settlement at Al na (now a m te haml t) on the ea t Bondaco was Lunded Is a Town dake who touched at the southern en l of the cland on his way from Minea and Inult a lost to be used as a defence against Saragen parates. Cals I in the north west. By the in the north-cast Maccio in the west wire founded or like Bonifacio refounded in the Cenoese. The principal port of the country is Bastly the modern capital is Ajaccio

Just as the typical Cornean vallage is a pla wed defence so the typical Corners home ha kind of lost. It is very tall and hence was an almust le lock-out station and it come to of a large number of flate so that there was always a small army of defenders actually on the premise. In Ba tis some of these hall lings five or six storrys high house over five lumbral people

Many of the flats are built round a central courtyard which is the convendent receptable for all the domestic refuse of the surrounding habitations The eartherware drain pipes are external with an open mouth under each of the windows. When the occupier of the flat is in a hurry all that ought to go down the drain is thrown into the

courtyard the resultant odours, in certain conditions of the weather are probably without parallel elsewhere.

#### Ubigultoon Utility of Stone

Stone being plentiful and clean, this is the commonest building material and is used even in the construction of the floors. Everywhere are stone houses, stone burns stone walls and stone baking overs. These baking overs are a feature of every village as



CROWDED HOUSES CLUSTERING ROUND BASTIA'S OLD HARBOUR
Bastia, at one time the capital of Corsica, is still the largest and busiest town of the island, it has a population of over 29,000 as against the 19,000 of Ajaccio This is a view of the old harbour, with the old town in the background It has a number of manufactures, such as soap and leather ware, and fruit, oil, fish and tan extracts are exported

they are placed along the roadside and are used by each of the families of the village in turn. They are heated by burning big bundles of shrubs cut on the neighbouring hillside.

The mountainous interior which afforded such admirable refuge also enforced the isolation produced by the sea. It brought about an attitude of suspicion to all visitors, who might be enemies in disguise, this in its turn bred a quarrelsome spirit in the people and gave the vendetta and the practice of brigandage a long tenure of existence

that is still far from its close. And brigandage found in the natural conditions of the island much that was conducive to its operations.

At the same time the Corsican is patriotic and hospitable and less greedy for tips than some other people with pleasanter manners. There is no theft, stealing being regarded as too mean a vice to be practised by so proud and fiery a race. The Corsicans are too independent to make good servants, too lazy to make good workmen and too quarrelsome to be relied on for friendship

## CORSICA GEOGRAPHICAL SUMMARY

Natural Division Mountainous island, a remnant of the ancient Tyrrhenian Land Its scarped coasts are due to the foundering of large crustal blocks which have sunk to form the basins of the Western Mediterranean and the Tyrrhenian Sea (See Mediterranean Sea)

Climate and Vegetation Winter rains and summer drought, maquis vegetation, heaths and evergreen trees, coastal swamps breeding ponds for malarial mosquitoes typically Mediterranean

Products Wheat, olives, wine, the destructive goat, chestnuts principally for local food supplies

Communications Railway, roads for

motors or mule-drawn diligences

Outlook An island off the beaten track, rendered more isolated by the tangled valleys and ridges of the interior, Corsica has bred an independent conservative people akin to the Albanians and as little likely to produce rapid changes in their world position.

## CRETE

# Rocky Outpost of Southern Europe

## by H R Hall, Dans

heeper of Egyptian and A yrian Antiquities British Museum. Author of Aegean Archaeology," etc.

THI Island of Crete has of recent years acquired a notert it which nor could have predicted for it half a century are. It was then considered mently a more than u ually inaccessible i lan I of the Mediterranean inhabited by Irigand and Turks of more than usually Hoodthiesty habits and visited only by an occus onal officer on long leave in search of they beads to add to his trophes of the chase or an occasional don who took the summer term "off to wander in an untouched Greek land and collect ament const.

It was indeed this last pursuit that brought Sir Arthur I vans then keeper of the Adimokan Museum at Oxford, to Crete for the first time and Lud the foundation of lus interest in and know ledge of the i land that led lum to his creat discoveries at Knosses or Chossus which have so to speak made the reputation of Crete as one of the most interesting Linds of ancient enviloration. His work has shown that this a land was the cluef focus of the culture of the eastern Mediterranean in the Bronze Age which was the ancestor of the later Hellenic or Greek civilization of classical days and so of our own Everybody who has travelled in Greece since about 1924 has also been to see knows and the ancient sites, Phaistos (or Phaestus) and Haghia Triadha, discovered by the Italians In the south of the Island, and has made acquaintance antiquities in the Museum of Candia.

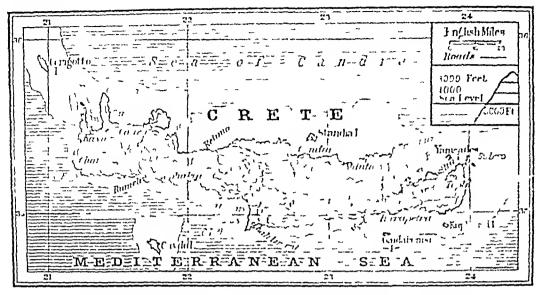
## Bride Between Greece and Egypt

The reason for Crete's very ancient importance in the history of the world is to be found in her geographical position. The island lies like a bridge between Creece and Anatolia able to influence and receive influences from She is and has always been Greek because the Access has always been Greek, and she has as a sort of natural breakwater between the Greek sea and the main Mediterranean the same time shear with the exception of Sicily the nearest of European land to Minca as well as to Min and above all the nearest to Egypt that ancient centre of human process we activity The effect of her proximity is evident in the archaeological evidence we have of her early culture-development partly originating from an I always in close connexion with Egypt

### Agricut Houst of Piretre

Also she is and always was a less stenle and more fertile country than continental Greece and Cretan civilization could grow up less trummilled by geographical conditions besides being protected by the sea from continental invacions. Crete possessed size and elbow room in which to develop which the smaller islands of the Argean did not possess. Let in classical days she lost her old preeminence to Greece proper and played but an undistinguished part in history notorious for little else than her particu larly pestilential breed of pirates, the Cretan corsairs who gave such trouble to the Romans.

Later she was conquered by the Arabs, lost by them to the Byzantines, then selzed by the Trank Crusaders and handed over by them to Venice to be held for centuries as one of the subject lands of S Mark. Next the Turks took her and she was thus once more placed under Modlem rulers, who governed her



LONG KNIFE-EDGE OF CRETE WITH ITS FOUR HEIGHTS

in their traditional way, chastising her with fire and sword when she rebelled, until final deliverance came in 1914 by means of her union with the kingdom of Greece

Crete is the third largest island in the Mediterranean, and measures 100 imiles long, while its breadth at its narrowest is only seven miles and a half and at its widest 35 miles. From the summit of Mount Ida, or Psilontis, its highest point (8,065 feet), one looks down to right and left on the surrounding sea. Across the isthmus of Hierapetra, the narrowest part, one can ride across the island from shore to shore in an hour or two

The eastern butt-end of the island. separated by this isthmus from the rest, is almost an island itself. The contrast between this isthmus and the towering height of Ida is striking, and when we see that besides Ida in the centre Crete has at its western end the almost equally lofty White Or Sphakia Mountains (7,882 feet), between Ida and the isthmus to the west the Lasithi group (7,165 feet), and immediately overlooking the isthmus the heights of Kavusi (4,850 feet), we realize what an extraordinary lofty island Crete is for its breadth. It is like a jagged knifeblade emerging from the sea, and this is the view of its southern coast which

travellers to Egypt and the East so often see and either admire or turn from with a shiver. For it is a forbidding coast which to the passer-by gives no limt of the beauties and imenities that its dark silhouette conceals

Indeed, Crete is one of the most beautiful and pleasant lands of the earth It combines the sterner and somewhat rarefied beauty of continental Greece with the more opulant charms of It is very like Italy, with a difference that is obviously Greek is more fertile than Greece, and there are more trees, in spite of the secular ravages of that foe of all trees, the goat The vine-terraced hill slopes and the wide-spreading olive groves remind us so of Italy that one is surprised not to see a campanile-topped village at the summit of every hill within view and, light grey, trigonal peaks Greece are replaced by darker mountains often of more rounded forms

The Venetians cannot have felt themselves very far from home. Yet the people never became Italianised. Their Eastern Orthodox religion, doggedly maintained and little interfered with by the Venetians—who themselves were the most Gallio-like of Italians, and recked little of pope or cardinal—kept them true to their Greek nationality,

they were and are the most Greek of the Creeks. Even their Moslem fellow Cretan Innoc expelled) were a Circle a they ex Chin turns who had fallen away under des Turkelieres ure

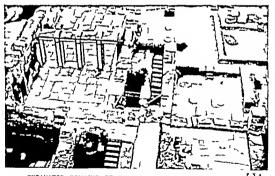
There is in Onte some of the most I mention and at the same tim erands t and most awe in mone mone tam scenery of its kind to be seen m I or me. There are snows which rately disappear entirely even in summer on lds and the White Mountain even at the southernmost littings in thi The nows look finer on the Lumpe White Mountain (which thus get their name) than on Ida for the western rance is more reaked and wild than the central linealongho, lack of even outline making it i tru but disappointing a a mountain in rate of its height. The may if of Lavithi i more varied and interesting

But nothing equals the wonderful gorges of Crete that of Schaker the famous corre of Rumili, on the southern side of the White Mountains rivals anything in the Himalaya or in China men say. And this though the fine t

is not the only one of its kind. Then there are ereat tha ms in the tock, like those of Kayn a and Arya when in old days codberd was deemed to dwell indeed, and the famous caves like those of Idx an I Dikte (the latter in Laythi) conally deemed bonnes of deats

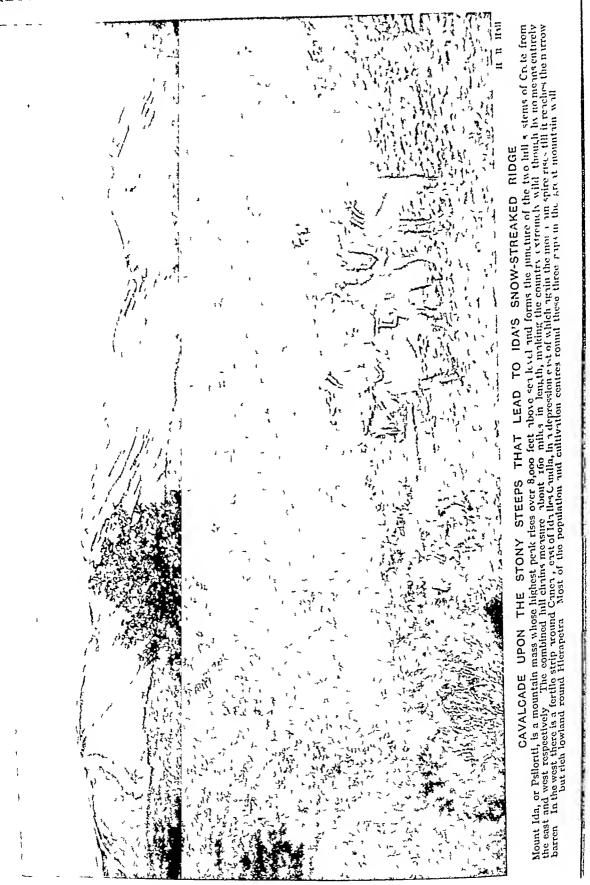
Lyerywhere class to these mighty full, and awesome corees is the bright blu sea of Creece with it dolphins and whit borses in the winds spring or the 11 Men and Getre black storms of winter. The Mediterrane in is no restful sea and the Aerean with its crosscurrents deflected in all direction by mountains to the home of Veolit oring when Boreas Hows the mall harbours of the north roa t are often and many a vistor from macre il I Atlans has to return thather unable to land at Candia But fix an occasional sands beach at as an iron bound coast

Hut when one has landed it is in spring at any rate the lovelest of Island everywhere covered with flowers. The anemone the crocu the hyaemth, the bis the siffron the hily the poppy are bere in their native land



EXCAVATED REMAINS OF THE WONDROUS PALACE OF MINDS

knowes, the city palice of King Mines, who is famed for the be-endary meeter hamited mare be kept lies few inlies to the south of Candia. The ast building I roughly rectangular and it skies measure about 150 yards. Salicrass connected the various tore; and there ore absorbered drainage s) tens in this must d of 5,600 years ago, which boused a stapendous retime





TRAVELLING THE WILD COUNTRY HEAR KAVUS!

The Loak fit of he will be not the internal little part of the part of th

are indigenous inhabitants of Crete true Eleokretans. The dittany still bears its Cretan name. Thyme Juniper and cistus cover the hills as in Corsica and the Cretan honey is so straugely flavoured with strong scents as to be almost unpalstable to a taste used to the produce of the lush meadows of England. The ancient Cretans fully appreciated the beauty of their flowers which appear over and over again painted (impress lonistically but with unersing truth of lumpression) in their frescoes.

Crete is a paradise for the botanist as well as for the lover of the beautiful in nature no less than for the archaeologi t I or the sportsman it is perhaps looning its charm as the lbex (or agrind 7) is rarer than it was. It is the king of Cretan leasts this "capra agagines with its splendid curving loons father and god of all goats in spite of Himalayan rivals. And he like his mountain gorges also partook of the divine in the minds of the old Cretans.

Crete has mountain scenes more characteristic than her gorges and caves the upland plains that are peculiar to her Typical are three one in each of the three chef mountain-masses the plain of Homalo in the

At the brse of the southern slopes of Mount Ida stand the runs of Gortyn, once the rival to knossos in the stringsle for supremacy among the city state, of the fluores Minoan environment of over five miles upon the left bank of the river Lethauss An encircling wall was begun but never finished, and there remain vestiges of a bath, a theatre upon the accopalisment and also the temple of Apollo Pythios later construction. Among the oldest buildings is one converted by the komans into a theatre and also the temple of Apollo Pythios RUINS AT GORTYN, ANCIENT RIVAL TO KNOSSOS FOR SUPREMACY IN CRETE

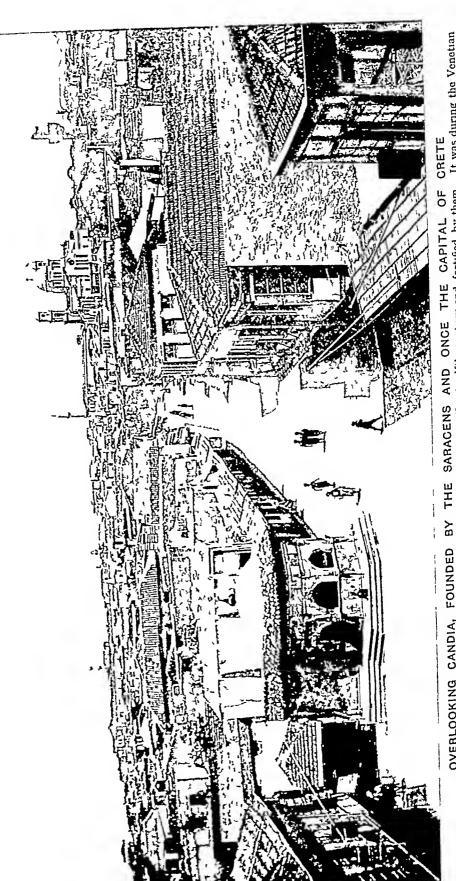
1509 CRITI



O C OF THE AMELYSPINING RAVINIA OF THE GRETAY HILLS OF CLOCK THE CRETAY HILLS OF CLOCK THE CRETA

White Mountains of Null In I Is and of Lauthi Their height also the sea rances from 1000 to 6 to 6ct. This are nearly circular a mill or two arms. with an ale lutely flat utface ut round I in each case in a wall of The lowest that mountain Ladible is cultivated the others are the homes of the mountain summer sherherds. They look like extinct craters that there is no volcanic action vialled in Circle which I calmost all imestone. They are water made-once the basins of upland lakes now drained either naturally or artificially. Ladthiprobably the latter in old Minoan days. On to the Nela plain the Inghest of its varying the mouth of the great case in which legend all Zeus was born, a he was suckled by the goat Aunthor's both the rand in the other case which imilarly boks out from the Diktream. Influed on to the wide swe principlain of La thil

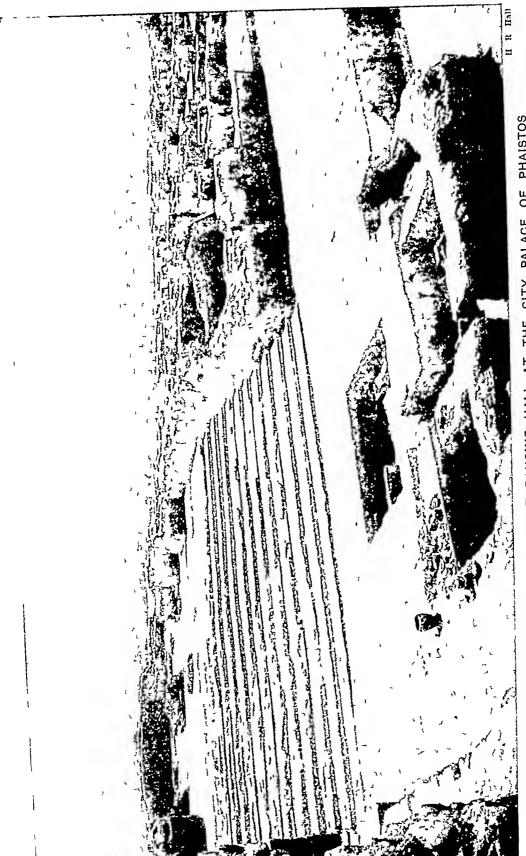
The mountains are prouped in more or less isolated masses the rugged snow-capped. White Mountains connect d with log backel Ida Is lower tidges such as Kentrus luoken 13 the valley of Amari. In a the wide plain of the Messara with the lower range of Kaphinos to the with vertical it of Kaphinos to the with vertical it of



First founded about the year \$24, Candia was taken from the Saracens by the Genoese in the twelfth century and fortified by them. It was during the Venetian excipation which cances that Candia reached its prime. These enterprising people supreme as merehant adventurers, built the walls, an arsenal end a structure raised by the Greeks. There is a small harbour from which and a labourhool.



The socienties forthe terms indly forther man societies for months of the forther of the forther



As old as knossos, the city palace of Phaistos lies on the rond from the former town to the sen. This was the prototype of the thentre developed by the Greeks a Acropolis and, as in the sister city, there is preserved what has been called a "thertral area". This was the prototype of the theatre developed by the Greeks a Acropolis and, as in the sister city, there is preserved what has been called a "thertral area". This was the other light is just out of the bottom thousand years after, and consists of two flights of which is seen above—at right angles to each other light is just out of the bottom of the photograph, and leads down from left to right. To the right again is the dancing floor GREAT DANGING HALL AT THE CITY PALACE 山田田

CRITI

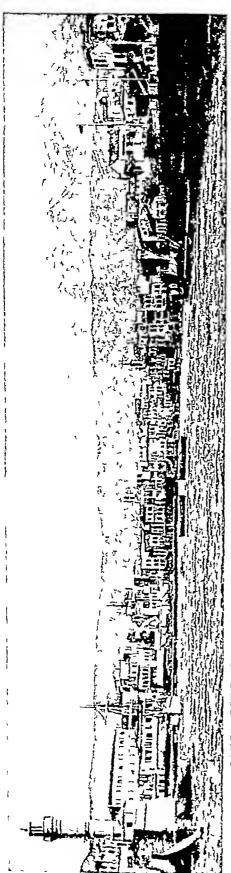


VEHICTIAN FOUNTAIN IN THE MAIN SOURCE OF CANDIA CHIEF of the property of the least section of the property of

from the sea and with his solitary conical hill of liktus in the north or relooking knot or then peaked La thithe ancient liktic then the istimus of Hierapetra, then the fill of having which remaid the Ln, lishman irrestribly of the screes of Wa twater of Kith Fell and the Crast Gald.

The western end of the island was too generally rupeed for the development of civilized life at the beginning, of lustory it remains in many ways the suddest part of the island. The central fertile plain of the Messara was the scene of the development of the Cretan Brouze Age culture. Here the first inhabitants comme from Anatolia in the east and Minca in the aouth already in the later Neolathic Age Itil the foundation of the great civilization of the Mincain the contemporary and rival of that of the Pharachis

Both tradition and archaeological decovery proclaim however as the clif of and ruling centre of the ancient polity. Here was the great pulses of the knownen king Minos the thala socrat and lawgur r who typifics in (teel, legend the sex ruling and law-enforcing power of prehi toric knowson, This palace was the legendary Lallyrinth the abode of that fearwage monator the



towards the western end of the north coast It abounds in mosques, though the Mahomedan t by the Venetians are the encircling walls, the fosse that defended them and a few architectural ROCKBOUND THE HARBOUR FINEST THE CAPITAL

Minotaur—a myth whose origin we know from the discoveries of Sir Arthur Evans. Here bulls were venerated as symbols of the god, and young men and maidens were sent to make sport with bulls in the arena in the dangerous game of "bull-leaping," when the performer turned a back-somersault through the horns and over the back of the charging bull. So we see from the Knossian frescoes and other representations of 1500 BC or thereabouts

To the south Knossos was connected by a road, traced by Sir Arthur Evans, with the southern sea It is represented to-day by the route from Knossos to the equally ancient palace of Phaistos excavated by the Italians and the rather later one at Haghia Triadha, both near Dibáki, where the Messara plain meets the sea in a wide-curving bay facing east

The isthmus of Hierapetra also was a very ancient centre of civilization, and the whole island east of Ida has yielded inestimable treasures of archaeological knowledge which are the more interesting because they are the oldest relics of European civilization, and because they are so amazingly illustrative and confirmatory of the enthralling Greek legends of the days of the heroes, familiar to us from our childhood

The personal appearance of the ancient Cretans as shown on their monuments proves that the modern inhabitants are the direct descendants of the Minoans. The type is the same, and the old people always represented themselves with remarkably small waists, especially in the case of the men—a characteristic which still persists among the Cretans, who have the smallest waists ever seen in the male kind, as has been noted by many travellers

The ancient Cretan women seem to have been much more interesting than their modern sisters, who suffer from the combined effects of centuries of repression both in classical Greek times and under the Moslem dispensation. The ancient ladies were indeed ladies,

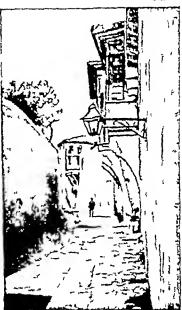
as we see from the frescore The ancient men more nothing but a wast cloth kilt or drawers and the Ligh boot of white leather which are till one of the most chir actering and peculiar things in the Lind they are necessary in this rocky and thorn country.

The numbers of the population of ancient Crete we do not know We can read the numeral Increclapting their system it is tru nothmede an lacmu t wait till the day of deciplerment of the clastablet records from knossos before we can express any opinion on the point. The modern population has varied at different times, owing to ma years and emigra tions but now may be estimated at about 350,000. Of these vers few are Modems most of the last lineering Islamites having departed at the end of the Great War Only a few remain at Candia, formerly their chief seat.

The Cretan towns resemble those of the other Greek lands. The ple turesque and interesting

Gothic element due to the Franks, which we see in the Morea in the castle of the Ldrissa at Argos or in Cyprus in the lovely abboy ruins of B.klapals, St Illiaron and Belveder is absent There were no picturesque French kinghts and "trouvers in Crete, but hard headed Venetian "provveditori and "podestid." A crocketed oglval door way or two there may be—that is all.

There was a quaint Renaissance stone building (a magazine) near the museum



IN A SIDE STREET OF OLD CANDIA there is the comment of the comment

at Candia which has now unfortunately gone the way of everything Frankow which can be pulled down cheaply a narrow national fanaticsm is the bane of the Greeks as of the Italians and other peoples. It is to be hoped that the splendid Venetian fountain in the market place of Candia will be preserved from the patriotic vandals. The Turkish buildings will certainly go

Luckly with the exception of a fountain or two there is nothing Moslem

that need excite much compassion if it Of the Candia mosques one is quite modern while the other is a converted Venetian-Gothic church, so altered and hacked about as to be of little interest though no doubt it ought to be preserved if it is abandoned by the Moslems Even the great ramparts of Candia that saw the siege of 1669 are threatened They are splendid examples of Venetian fortification, with interesting gates, and will be remembered well by anyone who served with the British garrison which held Candia for the Powers from 1898 till 1908

Besides Candia, which represents the ancient Knossos, the other chief towns are Canea, the nominal capital, which is nearer to Italy and "civilization," Retimo between Canea and Candia, Sitia at the eastern end of the island and Hierapetra on the south coast The last is little better than a village, Candia has about 25,000 inhabitants and Canea 20,000 Inland there are many big villages which act as commercial centres

There are schools and churches everywhere, as everywhere in Greece there are schools and churches Unhappily, both are, when modern, of the most appalling kind of cheap "meetinghouse" architecture that can be imagined Both priests and people are sternly practical in these matters

The monks, with few exceptions, are even less cultured than the priests, but then, after all, they are more farmers than clerics, and very good farmers, too Among the monasteries of the island are Arkádi, a historic house that saw

one of the greatest tragedies of the insurrectionary war of 1866, Toplu or Topler, "the Guns," at the north-east end of the island, Asomáton or Amán ("Amari of the Angels") between Ida and Kentros, Panagia Krystallinia ("Our Lady of the Snows") in Lasithi, a house of call renowned for the fine quality of its raki, Arvi, a strange, primitive little community whose house overlooks the Libyan Sea, and many another throughout the island

As in the West in the Middle Ages, the monasteries are also inns, though the muleteers do not always love them, this depends on the quality of the wine or raki supplied' Roads were until lately literally non-existent, nothing but bridle-paths being used on which one rode one's pony or mule, with muleteer and sumpter-mule in attendance, covering at most about 30 miles a day There were traces of old Venetian and Turkish roads here and there, made of stones, degenerate descendants of the old Roman roads, but they were sedulously to be avoided by all who valued their seat upon their In fact, travel in Crete until about 1914 was exactly what it was in the Europe of the twelfth century

Now, unhappily, ugly motor roads are being made, and a railway may even follow, though one sees nowhere much where it could go, except in the Messara, without being prohibitively expensive to build Even Crete will soon have lost her unique charm. So that one can recommend those in search of the picturesque to repair to Candia while there is yet time.

## CRETE GEOGRAPHICAL SUMMARY

Natural Division Mountainous island, with a main east-west axis along the line of mountains, from the backbone of Greece through Cyprus and the Taurus Mountains to the east end of the Caucasus Mountains The south coast is a scarp facing the foundered basin of the Eastern Mediterranean Sea (See Mediterranean Sea, Corsica) The plain of Messara suggests similarities with Andalusia

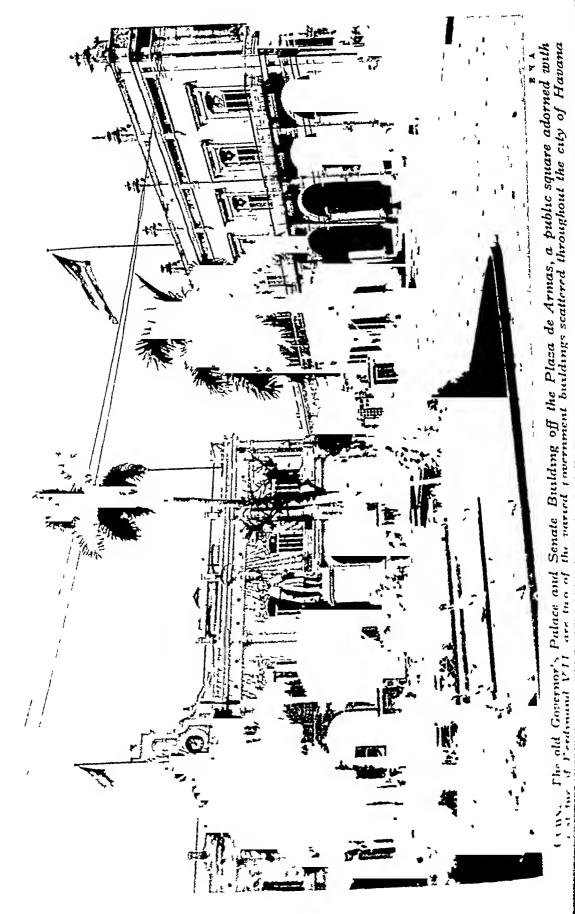
Climate, Vegetation, Products Typically Mediterranean Winter rains Maquis,

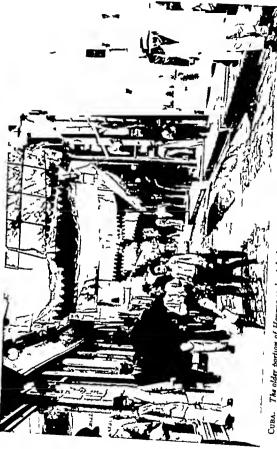
olives, wine, destructive goats Abundant water supplies give to the island an Italian fertility in a setting that is predominantly Greek

Outlook A "stepping stone" between Greece and Anatolia, a self-sufficient island, now as always capable of sustaining a considerable population. An island with a great past, Crete will contribute greatly to the progress of the Eastern Mediterranean, as the conservatism engendered by the Turk is discarded.

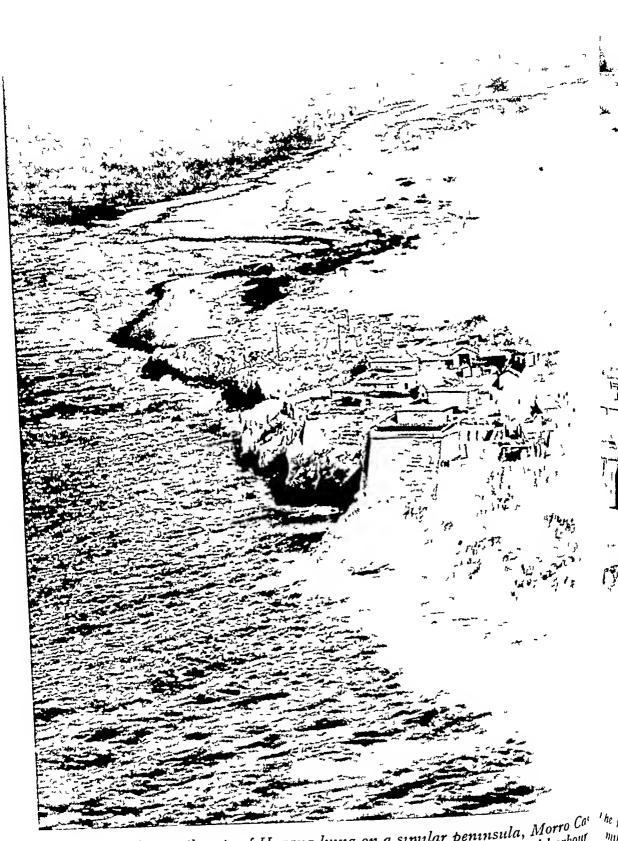


CUBA Of Havana s many churches the best known is the cathedral where the remains of Columbus rested for nearly 400 years





CUBA. The older portion of Haxana is devoted almost mitrely to commercial pursuits and this street sun shaded and so narrow as to permit of titlle or no traffic is O'Rnilly Street principal business thomaghfare of the city



CUBA Facing the city of Havana lying on a similar peninsula, Morro Cat he with its wireless statum guards the gateway to the fine land-locked harbout hard.



he maximum breadth of the harbour is a mile and a half its length three of miles its entrance part of which is seen above is only 1,000 feet broad 1521

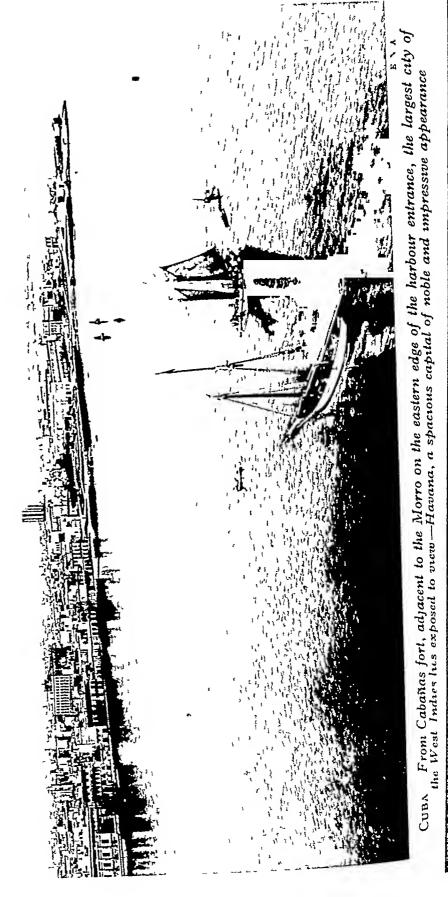


Cuba In this rich tropical island colour caste hardly exists, and racial mixtures are betrayed by dark and light complexion

1522



CUBA Monserral Church outside Malanzas city is said to effect the same marvellous cures as the ancient Monserral Monastery in Spain 1523



### **CUBA**

### Most Fertile Island of the Caribbean

### by Robert Machray

World Traveller und Writer on Loreign Affairs

I B) mill always less sociated with America Coming on from th Hahamas Columbus landed on th I lind in 1492 and electived it was th most beautiful country ever beliefd by mortal eye life praise was no doubt somewhat extravarant, but allow ance must be mad for his circum tances at the time. There I much that is beautiful and attractive about Cuba but the fame of Cuba tests on other erounds Befor the Creat War Cul a was known as the land which produced the finest eleves in the world ns sugar and its control of the sugar mark t have been much more in envience because of the hard and difficult economic ituation that has ensued

At the end of la t century Cuba was bollong largely in our newspapers because of lits long and desperate struggle for independence. That struggle came to an end owing to the Interposition of the Linted States who as a result of the Spanish American was of 1893-99 liberated the Island.

#### Status of the "Ouces of the Autilles

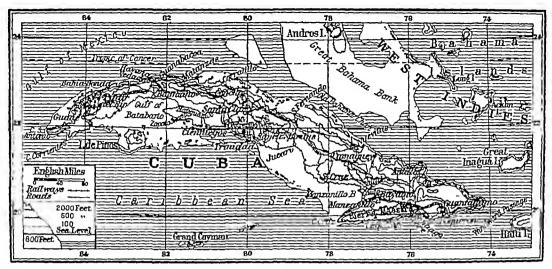
Among Cuba's other claims to fame may be placed the fact that its political status has originated a new verb—to Cubanise. Although Cuba is an independent republic the United States takes something more than a benevolent interest in it really it is a quasi protectorate of America and the word was invented to express this relation.

Much the largest island of the West Indies—which as a whole are the subject of a separate chapter—and often called the Queen of the Antilles, Cultales on rather than in the Caribbean Sea. Its western end just out into the middle of the entrance to the Culf of Mexico tyo miles from Yucatan and about the same di tance from the mainland of Plenda, though the Florida keys railway built on the keys or islet off the coa t to key West make the distance by sea about of miles.

#### Cale I catoon of I land

Culsa is a long narrow a land, the gen ral shape of which rather suggests an enormous crocodil. From east to nest it is ego miles in length and its width vance from 2 to 100 miles including the Isle of Panes and the islands, some of them in archipelagous and Leys (or cays) with which it is surrounded and which belong to it Cubi has a total area of nearly 46 000 source miles the area of the main bland being rather less than 4 000 square miles. The coast with a line upwards of 2,500 miles long is much indented and has several splendid harbours with narrow winding entrauces but opening into broad, lake-like expunce as at Havana Santiago Guanta namo and Clenfuegos.

Mountain ranges which are an extendon of those of Halti and Porto Rico run lengthwise through Cuba. and may be regarded as the spine of the crocodile of the preceding para graph These ranges are high in the cast in the Sierra Maestra with the Peak of Tarquina nearly 8,100 feet high and comparatively low in the west in the Oreanes Mountains which are nowhere much above 2 500 Between these slerras is a lunestone karst region-a rolling undulating country broken by hills here and there either singly or in small chains the highest point on the south being the



CUBA, LARGEST OF THE WEST INDIES, AND ITS RING OF ISLANDS

Potrerillo Peak with a height of about 2.000 feet The Sierra Maestra is composed of granite with an overlay of calcareous rock, and is heavily forested Under the name of the Sierra de Cobre. part of this range, lying close to the sea west of Santiago, gives the coast in that quarter a bold and even romantically beautiful aspect The Organos range consists of carboniferous strata, and from its southern slopes the famous Vuelta Abajo, near Pinar del Rio, which produces the finest cigar-tobacco in the world stretches down to the Cambbean

In a general way the province of Oriente, formerly called Santiago, corresponds to the eastern highlands, and the province of Pinar del Rio to the western highlands, while the provinces of Santa Clara, Camaguey—also named Puerto Principe Matanzas—and Havana correspond to the central karst region And here it may be mentioned that in the limestone there are many caverns, some with magnificent stalactites Much of the coastal area of Cuba, especially in the south, is marshy

The rivers of Cuba flow north and south of the mountain ranges and are numerous, but have mostly very short courses, which, however, serve to irrigate the plantations, though of little or no use for navigation. The principal river is the Cauto, 200 miles long, and, exceptionally, it has a westerly course, it empties into Manzanillo Bay, on the

south-east of the island, and is navigable for a stretch of several miles

On the north of the island the shore is largely coraline, but on the south a good deal of it is just plain mud and sand, much subject to overflows from the sea, but also covered in many places with mangroves—the business of which is to convert, in process of time, swamps and marshes into solid ground, and this they do by holding tenaciously with their roots, both above and below the water-line, all the soil they possibly can

Speaking broadly, the soil of the island is alluvial and very fertile Much of it has been under cultivation for sugar or tobacco for two or three hundred years With its natural richness increased by fairly steady tropical heat and abundant humidity, its productiveness is extraordinary and has doubtless somewhat encouraged the Cuban, at least in past years, not to do all that could be done to make the utmost use But to be strenuous in the tropics is not easy, and it is within them that Cuba, like most of the West Indies, lies Its typical tropical climate is modified, however, to some extent by its insular position, and varies, of course, according to altitude in any given district-for example, frost is not unknown in the There is a great deal of highlands rain, especially in the north-east, which gets the full benefit of the trades and where the annual rainfall is about

too inches at Hayana the annual average I get half that quantity

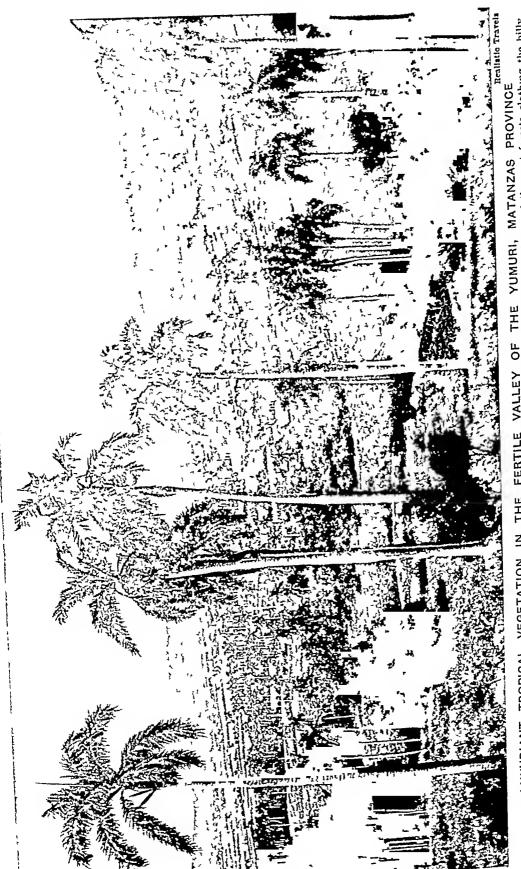
There are virtually just two serious in Culti and they are but must eller in difference in timpersture it and is difference of rainfall. The dry cases—it is not trelly only in dry later from Normber to Ajud Miv, and is relitable except than it with easier which fill in the remainder of it spans and has all it to that if the who rainfall. The mean temperature of it dry or writer easier it twent yound by I and that of the witer immers easier it letwers by anily I. Takin, and as tag into I Cold the

occillation from perature a territable. If it the man temperature at Illianan fer in tance as each of the variation is also utilize up or down for the variation is also utilize in tail or botter and son a laces in the rath as well as

the weith are imply grilling. The examps di tricts a mi ht le expect. I are malared and the diseases reculius gott the imare not alse nt from Cubawillow fever homewor his been stamped out. It has been proved at no limits, that with power attention t fixerer fullis a much a white min shala a colented min row miler that so many Americans and Cana lians pay much. I their time on the thrd paticularly donne the winter le life in it then with the require cat a dischiful. To be use there are lumianes or termines of grat are meat intervals dig are and wimof the la toric are properly like ter in 154 Havana off-rel the less of neath a w buildings and wo hips but they hum ares occur mly at the end of the with season and are not ir fills so terrilly destructive



NEAR THE MOUTH OF THE SAN JUAN RIVER IN MATANZAS CITY at the head of Matanzas flav on the porth rox tof Caba, her the rity of Matanzas, apriled of the process of the same name and second septemt of the island. I conside in 100, the city consist of the road and appeared by the 'son Juan and a terminal their which compy into the Learning of the process of the constitution of the consti



e soil is rich and fertile, and the vast forests clothing the hilly From the agricultural point of view, Matanzas is one of the most tered by the Yumuri river and stretching behind Matanzas city, is naking it a worthy Mecca of the botunist and art student Although like other islands of the Greater Antilles group Cuba is mountainous, much of the soil districts contain many valuable cabinet woods, besides dye woods, fibres, gums and resins From fertile and most thoroughly developed provinces, and the beautiful and extensive valley, watered THE FERTILE VALLEY VEGETATION IN TROPICAL LUXURIANT



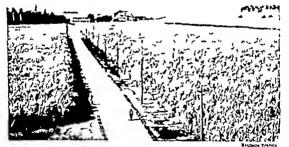
TOBACCO CULTIVATION IN HAVANA WORKERS IN A VEGA
The western part of Cuba is given up almost entirely to the cultivation of tobacco and the numerous plantations consist of small fields or "vegas," comprising several acres, selected wherever the land is richest. The superior qualities of Cuban tobacco are grown principally in the Vuelta Abajo, a district covering all of the province of Pinar del Rio and the western portion of the province of Havana



1531 CURA

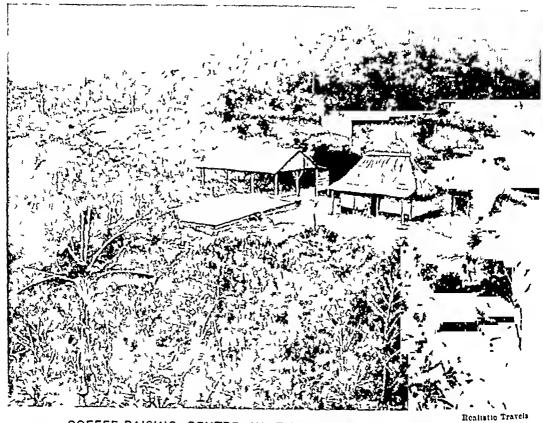


Art I with 21 71 MINN I



OVERLOOKING THE SUGAR-CANE FIELDS OF CUBA

The profession of gaw que in Cuba s passed rapidly which the last handred 3 are, and is till the dawn name crop of the island. Sozar is produced calledy in the certain part of Caba, and it is estimated it if the serge pic lations cover a total are of Longons arred. In 1913 there were coming one origin and the independent of the part 23 war 360,000 form



COFFEE-RAISING CENTRE IN THE PROVINCE OF ORIENTE

Coffee raising was for a long time almost exclusively an industry of Oriente, formerly Santiago, the most eastern province of Cuba It received a great impetus from the immigration of French refugees from Santo Domingo in the late eighteenth century, but although Cuban coffee still has a world wide reputation for its excellence the vitality of the industry has gradually declined

quantity How gigantic this industry is further appears from the fact that it supports 200 sugar mills and 2,800 miles of private railways

Next to sugar comes tobacco, the manufacture of which has a value of about ten millions sterling a year Something like 135 million cigars and nine million boxes of cigarettes are annually About threefourths of the tobacco of Cuba comes from the province of Pinar del Rio, the remainder from Havana and Santa Clara provinces Havana is the chief seat of the manufacture, and it is of interest to note that the work in the factories is lightened by the reading aloud of newspapers and by music by men appointed for the purpose is not grown on the scale that once obtained, but rice is being increasingly cultivated The export of fruits, such pineapples, bananas, coconuts. oranges and lemons, is very large, and

promises to become more valuable even than tobacco Cuba also produces immense quantities of rum and honey

If to all this wealth is added that which is derived from minerals—copper, iron, oil, manganese and asphalt—it will be seen what an exceedingly rich island Cuba is American capital is active in its development, especially of its mines and railways, though in the latter British interests, as represented by the United Railways of Havana, have the larger share America has most of the exports and imports—about three-quarters of the total, which in 1920 was about £270,000,000 sterling

The shipping is enormous and reaches out to all the world, and the island is well supplied with railways, their length, including both public and private lines, approximating 6,000 miles. Curiously enough, Cuba had a railroad as long ago as 1837—the first in any Spanish land Railways connect all the chief towns.

and ports. From Havana to Santiago is a run of twenty four hours. There are many miles of fairly good toads though seasonal influences have always to be taken into account

Cuba has nearly 3 000 000 inhabi of whom three-fourths are white the remainder being black or of mixed blood. Inlly a third of the population lives in the cities and principal towns. Havana has 365 000 people Camardey and Cienfuegos 100 000 next is Santiago with 70,000 and Cuantanamo Santa Clara and Matanzas are not far behind. Besides several towns have populations ranging from 50 000 to 30 000 Life varies a little in these cities and towns but the predominant tone is Spanish.

In many ways Ilayana is the most interesting city of Cuba. Situated on the north west coalt it has a magnificent harbour crowded with ships from all quarters Set in rich tropical vegetation the city consists of the old and the new towns the former narrow and cramped, the latter with wide streets squares and parks well built houses hors theatres hotels restaurants and cases all of the most modern and in striking contrast with the fascinatingly quaint architecture of the old town

Though its chief note is still Spanish Havana tends increasingly to become cosmonolitan. Naturally there is a strong American element The large and growing American colony has its own club hotel and family associations. and the American spirit is seen in a

certain unickening of the activities of the city. A considerable Canadian colony also flourishes. Many foreigners have permanent residences in the fine western suburb Vedado which has snrung up behind the Malecon the splendid driveway along the sea wall westward which Havana owes to the American occupation

Formerly the Prado as the sole fa blonable promenade was an epitome, at once gas and dignified of Cuban life the Prado with Central Park and its big borels is still fashionable but it now shares that do tinction with the Malecon into which It leads on the north | Fvery afternoon these two streets or rather avenues are the scene of almost interminable processions of people in motor cars and carriages and on foot or on horseback with halts in the squares in front of the botels and cafes where their friends are sitting chatting or listening to the bands and awaiting their arrival

the former capital is still a very Important town with a large volume of shipping particularly of ores from the mines of the Sierra de Cobre Its harbour is one of the best in the world. and the city Itself built on the foothills of the majestic sierra has n most imposing appearance. It too has an old and a new town but the greater part of the former was destroyed by earthquake. Its climate is hardly so good as that of Hayana, which is easily the centre of the life of Cubacommercially financially and politically

Santiago Hayana sold time rival and

#### CUBA GEOGRAPHICAL SUMMARY

Natural Division Mountainous Mand with an east west axis a relic of the mountain chains of the ancient continent of Antillia. (See America North) The Central Limestone heights are a karst region (See the Carso (Italy North) and Dinaric Alps (Serbla)

Climate Oceanic and Insular largely influenced by the north-east trade winds, which make the north-east the wettest regions. Tropical in temperature and in the two seasons, a hot wet season and a cool less miny season.

Vegetation Jungle forest (on uncleared lowlands) mangrove swamps on coasts.

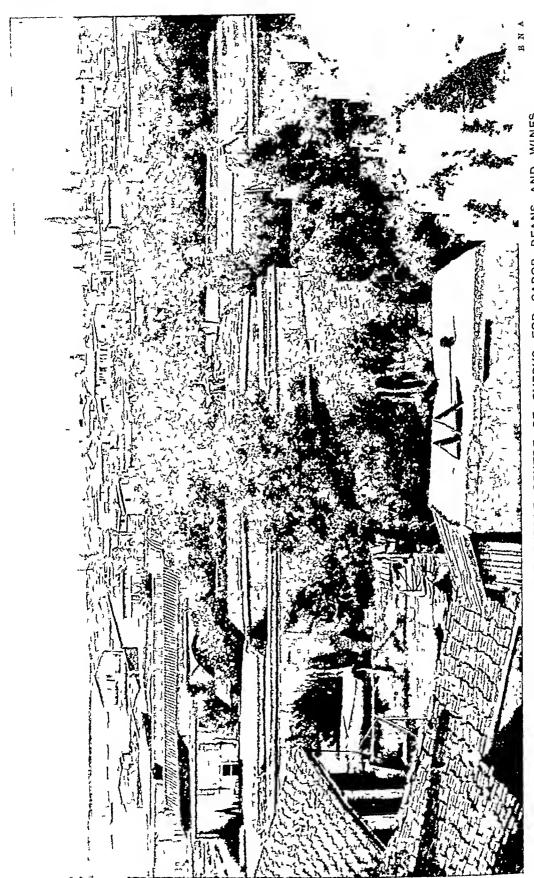
Virgin forests of mahogany and cabinet wood on the slope, grassy uplands on the beights. Cf Colombia.

Products Tobacco cane-sugar timber frutt, copper petroleum asphalt.

Communications External,

going ships for the great exports, chiefly to U.S.A. Internal, railways

Outlook As a semi-dependency of the United States and as a source of the subtropical products which that country lacks, Cube more than Hawali or the Philippines depends for its future upon its great continental neighbour



Hrdly less important as a harbour than Larnaka, from which it is 37 miles distant, Limasol lies on Akrotur Bay on the south coast, but in appearance is furner up to date as the great export of careb beans, which a spirits which it enjoys gave it a start over the other towns. Further exports consist of raisins, plut for of Party and all. Here it was that Richard I of England married Berengaria, which recalls the fact that this is not the first time that Cyprus has been in Nethin proceeding it hat a fact the Knights Templars Templars. CAROB BEANS AND WINES FOR OF CYPRUS CENTRE GREAT EXPORT LIMASOL, Р HARBOUR

### CYPRUS

## Ancient Source of the World's Copper

### by C W J Orr, CMG

Author of Cyprus under British Rule

THE island of Cyprus lies in the extreme north-east corner of the Nedsterranean being distant some 60 males from Syria to the east and 40 from Anatolia to the north Its extreme length is 140 miles and its breadth at Its widest part 60 miles.

The western half of the Island is a tumbled mass of pine-clad mountains rising at one point to a height of over 6 000 feet and covered with snow in the winter while the eastern half consusts of a low-lying alluvial and treeless plain, burning hot in summer fringed on the north by a line of hills rising steeply from the coast. A long and narrow tongue of land some 10 miles in breadth and 45 in length juts out in an easterly direction from the north-cast corner of the uland, giving it the appearance of a clenched fist with the index finerer extended.

Of overs Cyprus possesses none worthy of the name tiny tinking streams descend from the hills to the plain where they lose themselves in the soil save at the height of the rainy season when occasionally a swollen torrent makes its way in full spate along some dry channel and pours its contents into the marshes near the sea.

#### Harbours of Phoenician and Venetian

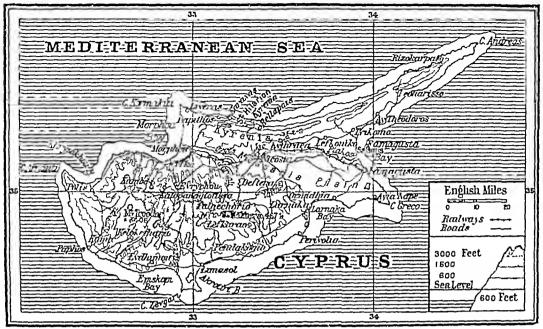
The coast line is broken by many bays and capes but there are no natural harbours of any size. On the north there is at Kyrenia a small medentation nsed as a harbour centures ago by the Phoemedans part of whose handiwork is still visible in the form of a shapeless but picturesque mass of masonry said to have supported a lighthouse. On the east coast is a small enclosed harbour and herekwater on

the site of the old and once renowned Venetian port of Famaginsia although it is small the vessels that use it can discharge direct on to the quay and into the milway trucks. On the south coast there are good and safe open anchorages at Larnaka and Limasol where ships can he and, except in stormy weather discharge and load cargo by means of lighters. Larnaka was formerly the great trade port of the island and its commercial centre.

#### Extremes of Hest and Cold

The climate of Cyprus is similar to that of Syria and the castern Mediter ranean the heat in the plams during the summer months being intense and the thermometer registering anything up to 110 F but from October to April the temperature is delightful. In December and January fires are neces sary for comfort and frosts though light ones are not uncommon. In the hills the climate during the summer months is almost perfect—dry and bracing, with a hot sun during the day and cool starlight nights while in the winter snow falls and lies for weeks together and the cold is commonthle to that of an English winter

The rainy season extends from about November to April little rain failing during the remaining months of the year The total rainfail throughout the island averages about 23 mehes the bulk of the rain falling during December and January when very heavy ram storms are often experienced, flooding the plains and bringing torrents down from the hills. During February and March comparatively little rain falls while about April in a normal falls while about April in a normal year there are a few heavy showers.



STRANGE OUTLINES OF CYPRUS LIKE A POINTING HAND

After the harvest in May rain rarely falls until the following November, and during this interval the soil becomes parched, cracked and dry Attempts have been made to collect the surplus rainfall of the winter into reservoirs where it can be distributed to the neighbouring farm lands

Cyprus is essentially an agricultural country and the alluvial plains of the central and eastern parts of the island are covered with fields of wheat or barley The Cypriot peasant has been accustomed to cultivate these cereals from time immemorial, and for long continued the methods which he inherited from his forefathers without making any attempt to improve on The seed is still hand sown and the harvest when ripe reaped with a common hand sickle The threshing is carried out on an open paved floor by driving over the sheaves a primitive instrument composed of a couple of rough boards studded with flints. The corn is winnowed in the evening breeze and stacked in great heaps whence it is eventually taken away, either to the firm houses or to be tied up in stacks for export, but threshing and winnowing machines are coming into increasing use Besid's barley and wheat, cotton, man, beans vetches sesame and millet are grown, for in spite of the long summer months of drought the peasant manages to keep his fields irrigated by means of wells, there being always a plentiful supply of underground water. The method of irrigation is simple and of great antiquity, chains of wells are dug and connected by tunnels, and the water is drawn up into a tank by means of a wheel worked by an ovor a donkey

1536

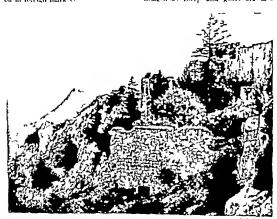
The people are extremely clever in matters of irrigation, but under Turkish rule numbers of wells were destroyed, and in many cases the peasants lack capital to reopen them. Modern air motors, however, have lately been brought into use and are to be seen dotted about the central plain and in large numbers along the southern coast.

Hardly less important to Cyprus than its agriculture are its trees and forests. The mountains of the western half of the island are covered with pine and cypress and the whole sland boasts of an area of over 200 square miles of first-class timber forest, there is a further area of 500 square miles of mixed timber and scrub which, like the former, is under the management of a government forestry department. Egypt and Pales tine were entirely dependent on Cypru during the Great War for fuel

One of the most fuerative products of Cyprus i the carel tires which are cultivated in litre numbers in the (witally about the northern and south em coasts and provide the celebrated carob or focust bean which is experted to the Hou b. Ides and cleralette for the mar alacture of cattle find. The tree was hall e to be attacked by various more posts which either it trivial or dimigod the fruit but a class investigation of the life history of these pests his been carried out and it is loyed that they may in time be wholk cradicated. The other is grown in rreat quantities in Cipris meet of the tiers are grafted and cultivat d and produce fruit of an excellent quality. The oil they yield is musilly unfit for export being left unclarified to suit the local taste. Init some of the i lander care now competing with clarified oil in foreign mark is

In the hill villages a con ideral le number of finit trees is cultivated and Cyprus explits to Lgypt figs orange limous plain approvis poties walnut clictures grapes pomegranites and applies. There are also in the hill differ extensive sines and a note in times the wines of Cyprus empoyed a great replation for in tance, the famou ld Communderia, those manufactured to-day however, ulthough improving somewhat in quality are experted clicib to Creece and Egypt

The government maintains a model farm near the capital where live-stock i rearrd and di tributed over the r Lind Decroughli red here's have been brought out from Fredan I and pedigree built rams and bears are also imported from time to time so that Cypru stock is gradually improving and already commands good prices. Large flocks of indigenous sheets and coats are also



ST HILARION ONCE THE STRONGEST FORTRESS OF THE ISLAND When a get on into the central kindland. It is easy to realize how it was that Cypers once supplied the tender for the get there. Of the Friedman's here however by it sweller me court have been accounted by the control of the friedman. The ratio is the photograph are those of the ancient deputhed post of St. Hilarion, after of thought ady is the fills above by permitted.



How Frierrastials from its high estrice is vividly shown by this photograph, where miscrable hovels are seen clustered round the ruins of ancient churches, it will be a mosque rears its lovely form in the centre. About 300 churches mark its ancient prosperity in the centre. To clinic Critical has modern harbour works and its condition is improving again in consequence, while a light railway connects it is a mile of the mil CATHEDRAL OF S NICHOLAS AND RUINED

maintained and pick up a scanti living from the young grass which springs up corrywhere after the first rains. The sheep are of the fat tailed variets carrying a fleece of from 41 to C lb in weight and the numl r in the i land is something over a quarter of a million. Their week i considered by experts to be particularly fine for cargets.

ore has been found to make at least one mine a profitable concern

Hesides entre Cypeus produces magnesite rypeum and a bestor. Of the latter immense quantities are present in the hills near the summer capital of Troodos which lies in the hills 5 000 feet above on level and close besile blount Olympus. The a be to-



GOVERNMENT BUILDING IN A NEWER QUARTER OF NICOSIA

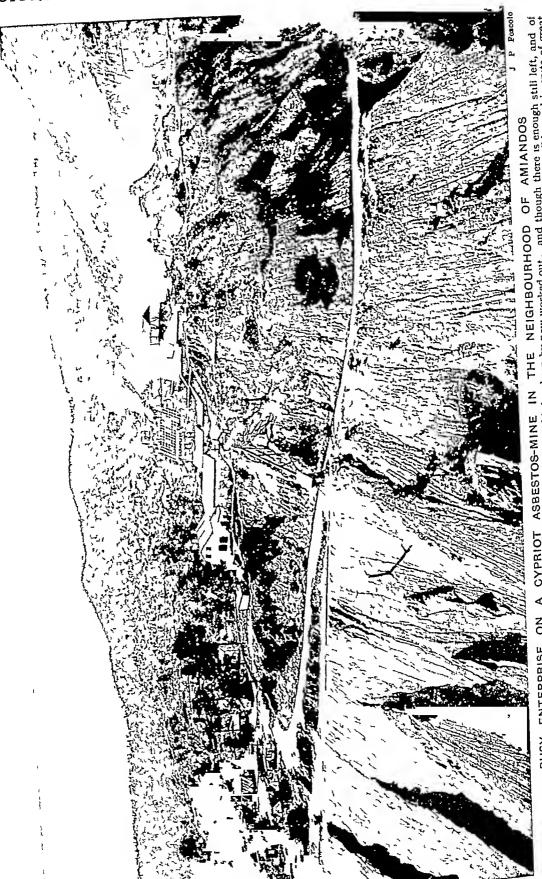
In Resear there Yee P phon on the wretern on a way the rapital of Cypter poor Nered is the
control of the comment, and his there alone the Newton occup too. After the creates of the Halpai
to Get I Britain for admit intensity purposes in 1973 and its analysis and intensity purposes to 1974 and its analysis of colors of Newton books, have printing to like this port-energy to like selected the doll "duma of A Nicosia".

The goats although they do much harm to the forests are absolutely necessary for the presenting and in spite of elaborate legislation against them are not decreasing in numbers. The mules and donkeys are thought to be the best in the world for pack purposes

In olden days the copper inlines of Cyprus were world renowned and the island provided most of that metal in ose in the then civilized world. The copper deposits were first exploited by the Phoenicians and after them by the Romans, whose old workings are still visible. Little was thought to be left except ore of a low grade this, how ever contains by-products which combine to render its extraction a profitable undertaking if conducted on a large scale and indeed sufficient high grade scale and indeed sufficient high grade

is of good quality and the main factor which has limited its export in the past is the difficulty and cost of transporting it to the coast. There, is now however an aertal railway in use

Before the British occupation in 1878 only one road existed connecting the port of Larnaka with the capital of Neoda a distance of about 25 miles. A narrow-gauge railway con attuected in 1905 which runs from the port of Famagusta in the extreme cast to the capital Nicosia and thence to Norphou Bay on the west las been continued for o farther ten miles up toto the foothills leading towards. Excellent motor roads have also been constructed throughout the whole island and a network of earl roads extends in every direction



Copper is the mineral for which Cyprus was most famed in ancient times, but most of it has been by now worked out, and though there is enough still left, and of sufficiently good quality, to support several mining enterprises, asbestos is far more important to day. The supply seems inexhaustible, and in spite of great and an enterprise, aspectively to enough the support several mining enterprises, asbestos is that it is of short fine, but this is offset by an increasing demand for the management in the expect figures could be enoughly increased. The one drawback is that it is of short finis is offset by an increasing demand for the management in the expectation of the control of the could be enoughly increased.

C \ PRUS



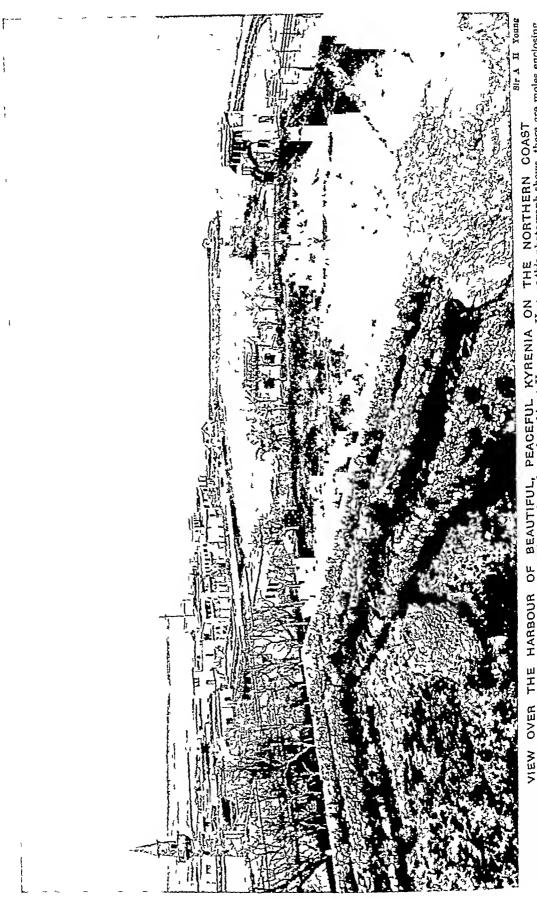
HEAP OF SALT FROM THE NATIONAL DEPOSITS OF LARMANA
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expert in an extent was import all of Today Lowers salt by proloning as form that recome
and in view it in extinction by fatter it producted for the factorist. It is deposited to the
I have been it, bedy near Lennika and Linnard into whole the percolates and expension.

External communication is main tained he a subsidised line of steamers running every ten days between Cypeus and Egypt a di tance of about 60 miles while him of several well known lines call at frequent intervals. The voyage from Port Said to Famagusta occupies about twenty three hours and from Port Sold to Limasol about rune teen hours. In the summer months it Is possible to leave Port Said shortly before noon land at Limasol early next morning and travelling by motor-car from there ascend the well-graded road and reach Troodes as miles distant in time for a late breakfast in the cool pure air amid the pine trees.

The exports of Cyprus consist mainly of careb beans livestock wine harley potatoes and raidm. Truit and vegetables are exported to Egypt and a fair trade is done in cotton flax sponges and gypsum. Ifides are attracting at tention by reason of the very fine leather they produce and silk of an excellent

quality hitherto exported solely in the form of cocoons will in future be manufactured on the island itself copier and advertos have been noted. Imports consist mainly of flour sugar cotton and woollen goods, tobacco leaf and machinery. On the majority of articles a to per cent ad valorem import duty is charged but on certain articles a specific duty is payable while some—mostly goods imported by the government for use in the public service—are admitted free of duty

Cyprus numbers but six towns, all scaports except the capital Nicosia which lies in the centre of the island in the great plain through which the railway runs. They possess the characteristics of most towns in the Levant picturesque old bazarars still remain but modern buildings and electric lighting are steadily becoming the rule. The old Gothic Cathedral in Nicosia Is now a mosque conspicuous by the graceful minarets which surround



On the north coast of Cyprus, which for an island lacks good harbours, the only roadstead is at Kyrenia. Here, as this photograph shows, there are moles enclosing a small stretch of protected water, but the port cannot be called a busy one. Its situation, however, is delightful, and an increasing number of people are resorting to such sea coast towns to enjoy the splendid winter climate, so that in time Cyprus may become a second Madeira. The minaret on the left is a relic of Turkish rule, the numbers of Turkish Mahouwchans on the Island seem to be decreasing.

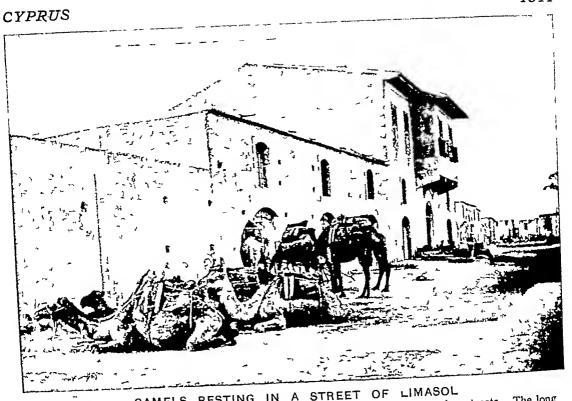


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SLOPES OF CYPRUS VIEWED DENUDED SEAWARD erres good alea of the ord

From Lapithon,

1544



Lying as it does on the very frontiers of East and West, Cyprus is a blend of contrasts The long Turkish domination has studded the island with minarets, many of them attached in the most incongruous way to ye older churches, but Christians predominate, and the Cypriot Church is independent from the Greek These camels suggest the Orient, but the buildings look Western



GREEK CYPRIOT HOMESTEAD AMONG THE HIGHLANDS

Modern methods of agriculture and higher standards of living are being steadily introduced into Cyprus, but the persons especially the older generation are still very conservative. Village communities are either Greel or Turkish, sometimes mixed. This is one of the dwellings in a Greel community of the halopanagiotism highlands, the figure in black on the right being a priest of the Cypriot Church

it Tamigu ta is a tumbled leap of old runed clurches and crumblin lattlement with Othell's Tower over I here the entrance to the hallour

Linawi the met medern tewn in the Hand, has had the benefit of a consideral? managed receive from the fact that most of the careles are shapped from their and was the al? th whole of the remainder Creek thri thans. Most of the inhaldmants are of the peasant class engaged in agriculture. In the treems is a sprinkling of morehants dectors and lawyers who have received their professional education in Athen Lan or Landon. The Creek peaking inhabitants are intelligent and possess the qualities of the Leaanting Creek. The Turks are



WATCHFRONT OF THE ISLANDS CHIEF SEAPORT LARNAKA
Alle to than a first to deep a eigens of the residence of the relighters. If the electrical is live to the first of Chief the to the containing to the containing the con
taining the con

circuite lighting and lay out public gardens with land tands and medien attractions. The old for exits—it is used as a circulprison—and the traveller is shown the chapel in it where keeler! Coent do Llon is said to have been married to Berringaria Paylow and kyrenia are little leepy hollow wooderfully picture-spie and modelent of bygone ages but of small commercial or other importance unless thanks to their beauty and their climate they develop into winter revort a their well may do

The population of Cyprus a recorded in the census tak in in 1921 is 310 715 about one-fifth being Moslims of Ottoman Turk origin and practically cap lis losing to their more a tufe. Christian conjustions the landed wealth which they one processed. There are a fee colonics of Joss and Americans and the higher administrative posts are filled by Lingh Iman.

I wan after Cyprus was relieved of the y he of Turkish administration or mal administration in 1879 progress was slow but since the formal annexation in 1914 when many of the younger generation went almost on drivers during the Great War there has been a fremendous influx of new ideas and the Island idds fair to recover some of that prosperity which history shows that It is led in the early days of civilization.

### CYPRUS GEOGRAPHICAL SUNIMARY

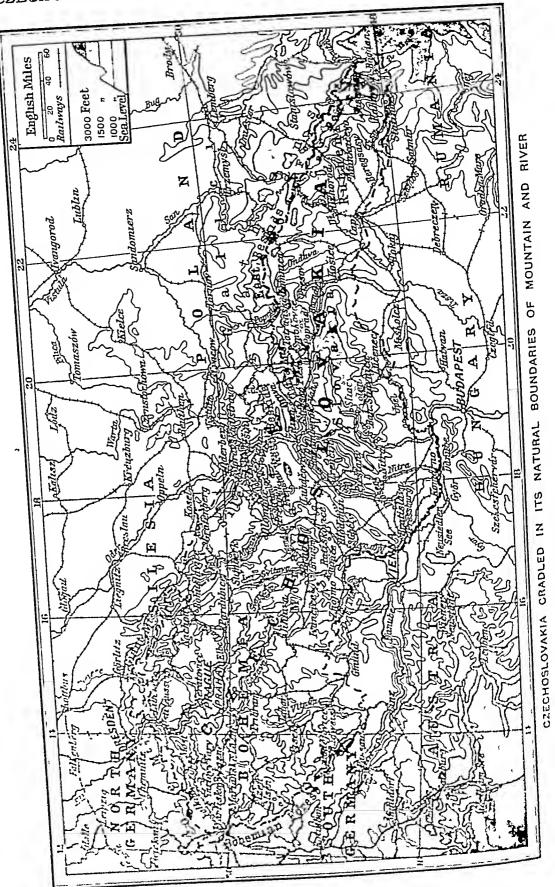
Natural Dist ion Mountainous bland connected with Crete and the Taurus Mountains, Eastern lowland

Climate and legetation Spring is the best season. Cl Cor-ica Crete. Winter rains with a total fall less than the direct parts of England. Evergreen forests on heights, errob trees among foo bills.

Products Wheat barley millet, grown in fields irrigated from supplies of under

ground water Cl. Riverina Australia, Destructive goats ofives wines raisins, Copper a bestos

Oxidos Lucept for minerals, Cyprus ha hitherto relied largels on Frynt for trade Cf Channel Islands and Southern England. Its future less in the slow assumed to the Large verywhere engeddered by the paralyzing hand of the Turk.



### CZECHOSLOVAKIA

# Southward Valleys of the Carpathians

### by Henry Baerlein

Author of Over the Hills of Ruthenia

IN the case of Czechoslovakia those who after the Great War were engaged in remaking the map of Europo found their task easier than in most other parts on account of the mountain ranges with which a great deal of that republic is surrounded. This is notably the case with regard to Bohemia the northern province of the republic, which is dealt with in another chapter. And Motavaa (with Silesia) Stovakia and Ruthenla—the remaining provinces which we have here to con ader—are well provided on their northern frontiers with a mountain wall.

Scarcely any frontier could be more perfect than that between Slovaka and Poland which runs along the bare and magnificent Tatra Mountains. But the frontier at both extremities of these mountains is for many leagues just as gratifying to the impartial map-maker These ranges are the West and the East Beskids while Ruthenia is divided from Eastern Galicia (that is to say Poland) by another section of the Carrathlams.

The curiodity of the frontfer line is the busy town of Tesm (Teschen) whose destiny was for a considerable time in suspense. Carchoslovakis Poland and their Allies debated the question from all sides and not always very calmly. The solution was to allot a part of the town to each of the two claimants and as a river flows conveniently through it, this solution has been found to be quite workable.

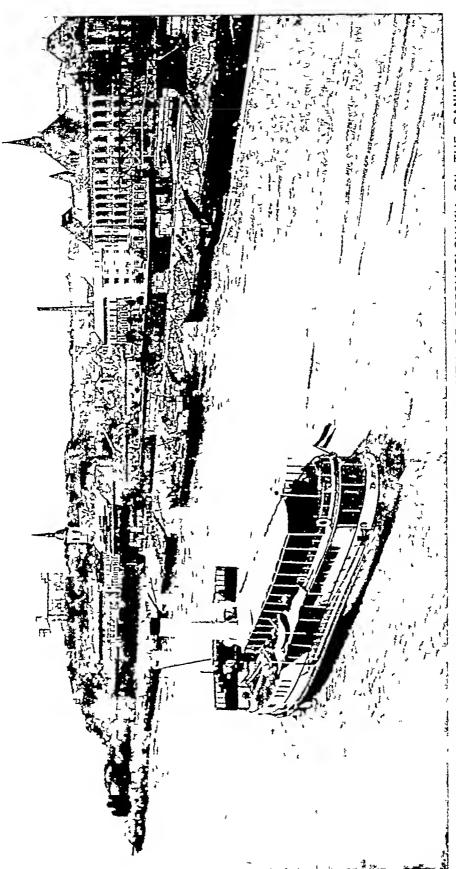
### Stable Course of the River Dazube

The southern boundaries of Motavia, Slovakia and Ruthenia are largely formed by rivers and in so far as these are of appreciable width they are only less perfect than the northern mountains. The Danube does not like the Rio Grande change its course nor does it flow intermittently down various channels, as Professor Cupic the great geographer of Belgrade University has shown to be the case in the province of Bakka (where the difficult frontier is between Hungary and Yugo-Slavia) These peculiarities are not exhibited to any noteworthy extent in the reaches of the Danube which divide Hungary from Slovakia nor yet in the rivers Morava and Jpel which, on this and on that side of the Danube form the continuation of the frontier line.

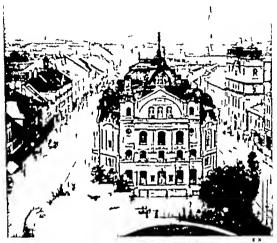
#### Assembleme Promilers of Ruthenia

It may therefore be said that the provinces we are considering have little to complain of with regard to the various obstacles which nature has placed between them and their more or less friendly neighbours. But about half the southern frontier of Rathenia is merely a line drawn slong the plain and in the other portion the map-makers have falled very lamentably to avail themselves of the assistance given to them by nature. At the far end of Ruthenia-a province which is also known by the name of Sub-Carpathian Russis-there stands on the left bank of the rushing river Tisa (Theiss) a chain of mountains that should quite obviously have been the frontier between Ruthenia and the kingdom of Rumania, apart altogether from the fact that the inhabitants of that small territory between the river and the mountains are as much Ruthenian as are those others on the right bank.

It was seen fit to take the river in preference to the mountains as a boundary with the result that a small



Period as in Slocaker more finilists known by its German name Pressburg and its Hungarian name Pozsony, was the former capital of Hungary, many have of Hungarian Parliament met in the Landbaus until 1848. Beautifully or it a literal of the Hight of 270 feet above the river, the ruins of the royal palace, formerly the residence of the Hapsburg kings, are still standing . utel on the vine clud spurs of the little Carpathlins on the left bank of the Danube, the city has an imposing aspect and is dominated by the castle hill, where, CZECHOSLOVAKIA ON THE OF PORT AND HISTORICAL WELL-KNOWN



OVERLOOKING THE MUNICIPAL THEATRE AND MAIN STREET OF KOSICE home: In the offside name for ha see former fire city of Hospary is now part of the Creboal printing and the most important town in Last Monakla, has ning considerable interests printing in consection with the motion arms, the IT term Beskide. Among notable holidings are the the tre mercans and the catched of 8. Littleshies, whence this lew is obtained.

portion of Rumanua is now only accessible to the rest of that country by a railway which traverses Czechoslovakian and a larger portion of Crechoslovakia suffers in the same fashlon. The last Ruthenian valley embracing Jasenie Rahovo Bogdan pasture-lands and great forests is cut off from the remainder of the republic (except by way of precipitous mountain tracks) whereas the part of Rumania which is separated from the parent country is of such insignificance that the two Rumanian trains which are every morning and every evening, brought into the district run with scarcely any passengers they are merely a somewhat expensive political demonstration.

Yet on the whole Moravia, Slovakia and Ruthenia are well entitled to be satisfied with the various walls that nature has given them. They are united to one another (and to the province of Bohemia) just as they are separated from the surrounding states. Of course, in a country of the area of Czechoslovakia it is to be expected that there should be local variations in climate as in other respects. As a political unit Czechoslovakia arose out of the Great War. It is an association of Slaw peoples which by their own efforts and



SCENIC SPLENDOUR OF THE HIGHLANDS OF NORTH SLOVAKIA

The Carpathia is rise, entitions its nost reason to know in the High Tatra interest we the valera of the valera of



REST HOUSE IN A SECLUDED SPOT OF THE HIGH TATRA RANGE

Slovakis on Toyadakis Pieco-a lake, at an airthood of your feet, whose crystal depths contain should of lively front. Despits its solitary position, the small denicite keeps open knose all the year round, and been the locatist can obtain a sections much keep a level an quality at a momenty notice.

with the assistance of the Western Powers, arose from the ashes of the Austro-Hungarian Empire For centuries the Czech and the Slovak had lost their independence, but now the alien domination has been shaken off and the lands which once were ruled by native princes have regained their liberty

# Transport of Iron on the Oder

Yet Czechoslovakia is a land on which nature has smiled, and in nothing is this more obvious than in the chain of rivers Taking only the provinces of Moravia, Slovakia and Ruthenia we have, in addition to the frontier rivers already mentioned, the Oder, upon which the republic has the right of international navigation, for as Hamburg is to the Elbe so is Stettin to the Oder Up this river the very large imports of iron are made from Sweden, as yet the ships with this cargo can sail no farther than Kosel in Germany, but the remainder of the river is in process of canalisation, so that shortly they will be able to pass without interruption into Moravia Brno (Brunn), Moravia's busy capital, there are two rivers, the Svitava and the Syratka, which unite and later join the Dyle (in German called the Thaya), and this river, which for a portion of its course serves as the frontier with Austria, is well provided with hydroelectric stations

estimated at only 800,000 h p annually, an annual saving of six million tons of coal will be effected, which is about twenty per cent of the entire coal output. In accordance with the Electricity Law of July, 1019, the state takes over the utilisation of water-power and construction of water-power plants while the construction of electric conduits and thermo-electric plants is left to companies, at least sixty per cent of whose capital is to be held by the state and local authorities, the remainder by private shareholders

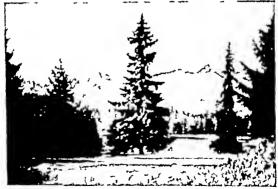
These rivers pass over a land in which all the phases of geological development are represented. For example, in northern and south-western Moravia the volcanic strata prevail. In the valley of the Morava, which cuts Moravia into two parts, and in the south of Moravia we find diluvial and alluvial sind and clay. The Slovakian mount his consist largely of grante, but elsewhere in that province, especially in the south, eg in the south of Ruthenia, we come again upon diluvial and alluvial deposits.

# Effect of Climate on Agriculture

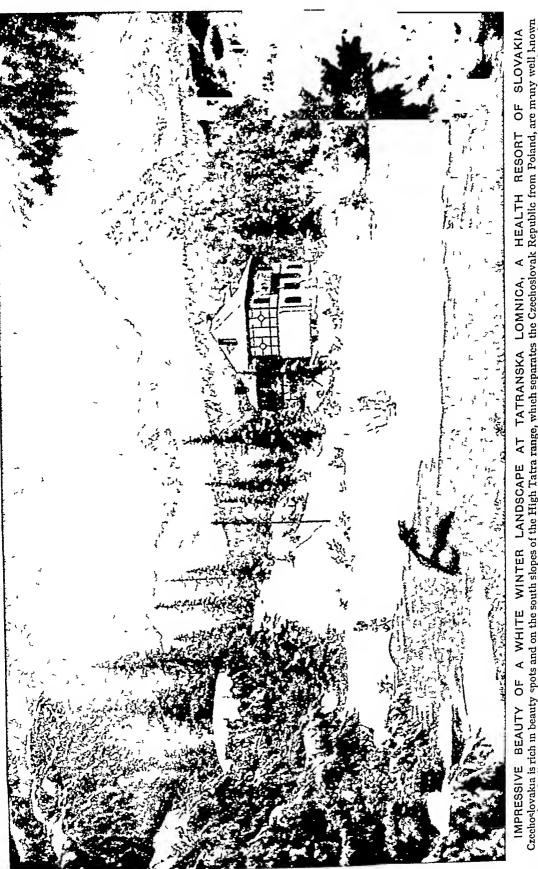
The chimate forms a mean between the maritime and the continental. The rainfall is, on the whole very even and is mainly confined to the summer virying from about 20 melies on the lower and about 30 melies on the higher levels. The temperature varies with the altitude, the wirmest part of the

CZECHOSIOI AKIA

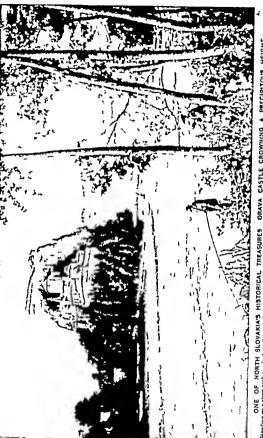




ON THE WAY FROM STREA TO STRESKE PLESO IN THE CARPATHIANS A The Can third Montanel Logic I or epithemorph I larger with bill it It to present a receiver it grows a bild in and be low it glower edit insult we said to I yet yet the control of the c



At Tatranska Lomnica warm sunshine may be enjoyed in the of conferous trees and spread with a coverlet of chaste snow, sparkle and scintillate as with a thousand firshing gems in the golden glare of the brillinit sumligh? depth of winter, here precipitous rock walls rise sheer from the valleys, their summits crowned with a coronet of eternal snow, while the lower slopes, rich health giving thermal springs and for the loveliness of resorts famed alike for their



Amanda be 4 the ways ORAVA CASTLE CROWNING A PRECIPITOUS HEIGHT Service Company destruct fitherame ame in North Smalla, Ora Cast Standing on a streep rock or enhousing the enver Ora up COUNTY HOLE

If the peasant spent more of his time in the open air he would no doubt present a still more satisfactory appearance, for there are parts, chiefly in Ruthenia, where the cottages have with few exceptions scarcely any modern amenities

# Health-giving Waters of the Republic

Czechoslovakia, then, is a healthy land, and in addition is provided with a great number of health resorts most famous ones will be found described in the chapter on Bohemia In Moravia the most important springs are found at Luhačovice, where the waters are of a solid gaseous variety containing bicarbonates, chlorine and sodium Silesia there is a similar establishment founded by the famous Priessnitz in 1826 at Grafenberg Slovakia has many health resorts Thus at Piestany are hot sulphur springs, at Vyhne and Shac ferruginous hyperthermal springs The chief health resorts in the Tatras. especially attractive on account of the beautiful scenery, are Tatranska Lomnica (peculiarly adapted for winter sports), Strbské Pleso (resembling in miniature the finest spots of the Rocky Mountains) and Smokovce, where unfortunately a conflagration has destroyed many of the trees

# Magnificent Stags in the Forests

The presence of these pine trees in other parts of the district renders it favourable for consumptives. Czechoslovakia is not a country in which the workers in certain regions have, for their health's sake, to migrate occasionally into other parts. There is nothing to prevent the peasant, the miner and the artisan from spending the whole year in perfect comfort at the same place.

Moravia, Slovakia and Ruthema possess wide areas of pasture-land, of arable land ind of forest. These forests, which predominate in Ruthema, are largely composed of beeches and magnificent oaks. They are the haunts of the wild boar, of the bear and of volves, as also of a celebrated breed

of stags that is unsurpassed for size and comeliness in the whole of Europe In Moravia and the less mountainous parts of Slovakia the fauna has more resemblance to that of Great Britain After all, one half of the republic consists of arable land, only four per cent being unproductive, so that the intensity of cultivation compares very well with that of other states In the Czech territories (Boliemia, Moravia and Silesia) there is, properly speaking, no unused land, since the four per cent of non-productive area referred to in the statistics is accounted for by the surface taken up by buildings, rivers, roads, etc In Slovakia and Ruthenia it will be possible to increase the amount of arable soil

# Mining Regulations 700 Years Old

Underneath the soil Czechoslovakia ranks in the extent and variety of its mineral resources among the first countries of Europe With the exception of platinum it possesses every useful It is therefore natural that mining operations were carried on from quite early times. The mining regulations of Moravia, for instance those of Jihlava (from the year 1250), were adopted in other countries Afterwards a decline set in and it was not until the end of the eighteenth and the beginning of the nineteenth century that mining industries were revived, largely owing to the great industrial development which was then taking place and which, with its growing demand for fuel, led to the exploitation of the rich coal-fields of the country

To-day the conl-mines yield the he iviest output of any nuneral products, and as regards the facilities for the training of mining engineers, there is a School of Mines at Pribram, while there is a similar institution at B in Stravine i the latter being the oldest of its kind in the world. The most important conl-fields are those of Ostrava k irvin for conland the Most-Fill nov district for lighter After the Great War there was a preatly decreased output, due in part to the



PRESTANY A REA OF SLOVANIA WITH HOT SULPHUR SPRINGS
TO Com a life and to the series of the series of

es more with a dittle mires conthe center to obstanced to be a chard firmulative the capitals can its destroyle ins.

The annual content of all out age to er tei tens el tens are la capo lla d tobut i letween libra and Clorate The province nailth a l are utuated near Clely on the H. Ion n. Brati lava tailway where beavy oiland as a laborate are found. Rathlmice near Halam as a Ha at It he larger on the Villa ore unties of ludd oil deter down, Should the revards work of the owers ment now in 18 57 s in 31 ravia Slovakia and Ruthenia succes Inl Creckel nata inder relent of freezen countries so far as petri leum is concerned.

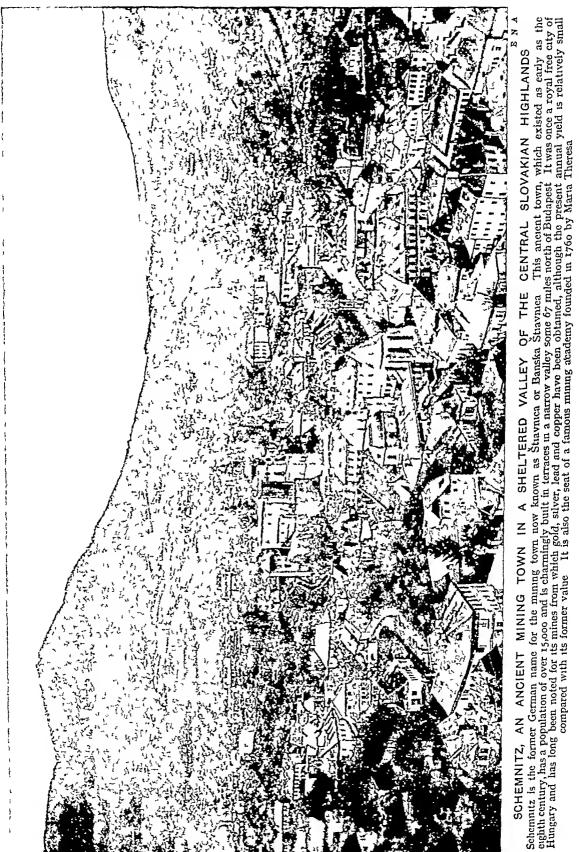
There are state all mines near previous forsalis whose tests annual output tags that with that of certain new salt works in the arms district to estimated at a trace tons. The state salt mines at Slatina in Rutheria yl-11 420 tons a day or about 120,000 tons a year. By improving the working conditions it will be possible to increase the output with the result that Crecheslatos akis will in this respect be self-computed to SLA 2.1.2 for the analy must feet.

egyetter. The extraction of alternal minoral leaves statem more ele-

The fat has taken currently in Land the education of the workers in the number by I thought f pacent bear at Jenn tan ht the interved melt ! damiculture while er cults in Lutheran the everprient talleled in Jel larm that will mote the passint to imprine their treatment I the roll and the cattle But with so much of the hard in the cumple for mone it is said that Lunt Schinkern was once the inner of math, to per cent, of the while of buth nea-theres intlind millinduce. ment to work energetically. His wa a minute lelling if indeed he had any be king at all. And this state of things Is I in temedied by the Ministry of Arrarian Reform whose ann is amone other things to settle poor Ruthenes from the mountains in the wid tretches of plain in the worth of the province

Dut Czecheslonatar le also an industrial state. Its Indu trice can be divided into three groups firstly those which divice their raw material from the ropublic itself such as the agricultural indu tries sugar alcohol beer milt starch etc. the porcelain industry to 17 mast.

D64



glass making and the timber industry. The second group comprises industries obtaining only a part of their raw materials at home such as the industries producing teel iron the greater part of the metal industries together with the chemical and leather industries. The third group has to import the whole of its raw materials and this includes the textile and phosphate industries and various metal industries such as comper and neckel.

With regard to the first group Crechostovakin is the only Furopean sugar exporter and the second largest beet-sugar producer in the world. Most of the factories are situated in Bohemia but out of the total of 173 which with in existence before the Creat War for were in Moravia and Slovakia. The French sugar factories produce an average 31,338 tims a month each so that the 45,000 tens capacity of one Bohemian factory and the 150,000 tens of a Slovak concur are very creditable.

## Bert Sutar and H Control

in 1922 Czechoslovakia contained 186 factories of which 118 were in Bohemia and 68 in the provinces we are consider The abnormal conditions of the Great War brought about In shortage of coal the lack of artificial fertilisers and the labour shortage had an adverse influence on the production of sugar but since the formation of the republic the situation has been rendered stable by the firm control exercised by the Sugar Commission and by cooperation on the part of the factories. This is especially applicable to the measures taken for assuring supplies of beet to each refiners

The big companies are trying to extend their sphere of influence over a maximum number of sugar factories, thus ensuring a steady and regular supply of raw sugar for their refineries. Moravia with Silesia, possesses fourteen stock companies formed by beet growers. About half the supply of beet in these provinces lowever is raised on estates operated by the refineries. In Slovakh

also the refuneries grow 90 per cent of their requirements on large estates which they operate themselves while the bilance of the best needed is supplied by small landowners under contract. The largest sugar factories sell their good through the lanks that have pecual ugar department.

## Steple Introllest f "Pilener

Before the Creat War the largest bayers were Great Britain India Switzerland the Levant Turkey and Creece. The exports are centralised in the Crechoslovak Sugar Lyport Company of Prague which i under the control of the Ministry of I mance and the Board of Foreign Trade. There is severy a son to believe in the future development of the indistry. A sugar syndicate embracing the whole in dustry has been formed and this will beneeforth supervise not only the relations between the whole-all traders and the refineries but the exports.

Moravia produce much of the malt which together with the Bohemian hops forms the taple ingredient of the world famous Piloner beer In the sixties of the last century the first malt factories were established in the Hana district of Moravia where the soil is of the most fertile character. In 19.2 the republic contained 203 malt factories. 35 being in the hands of joint-stock companies and 168 belonging to private owners. The Czecho-lovak Malt Syndicate in Brno includes almost the whole industry The old installations are being replaced by modern machinery and the aim of the syndicate is to main tain and develop the excellent pre-War reputation of the malt.

## Making of Beer Spirite ad WI

The beer brewing industry is for the most part situated in Bohemia where pride of place is held by the celebrated Municipal Brewery at Pizen (Pilsen) It Bourishes also in Moravia while the Juliava district of Moravia and likerrico Slovakia occupy themselves largely in the manufacture of liquers, using

potatoes and beet for their raw material. An important branch of the spirit industry is comprised in the manufacture of yeast. A new factory that will be one of the largest undertakings in the republic is being established at Dioseg in Slovakia. Its annual output of yeast will amount to 1,000 tons.

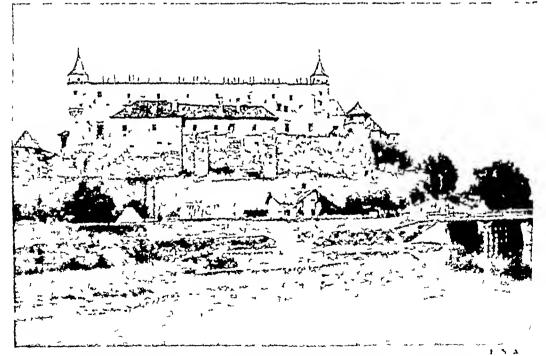
All the provinces are engaged in the wine industry The home production, however, is inadequate and a considerable quantity has to be imported Slovakia and Ruthenia produce the greater quantity of wine, that in the neighbourhood of Beregsasy in Ruthenia having, in many cases, much resemblance to Tokay, from which district it is not far distant On the Ruthenian hillsides. growing in the famous dark red earth. the vines form a prominent feature So much are the grapes in request that an armed watchman, with several fierce dogs, is permanently stationed behind the barbed wire of every vineyard

The railway system under the old regime was constructed with an eye on

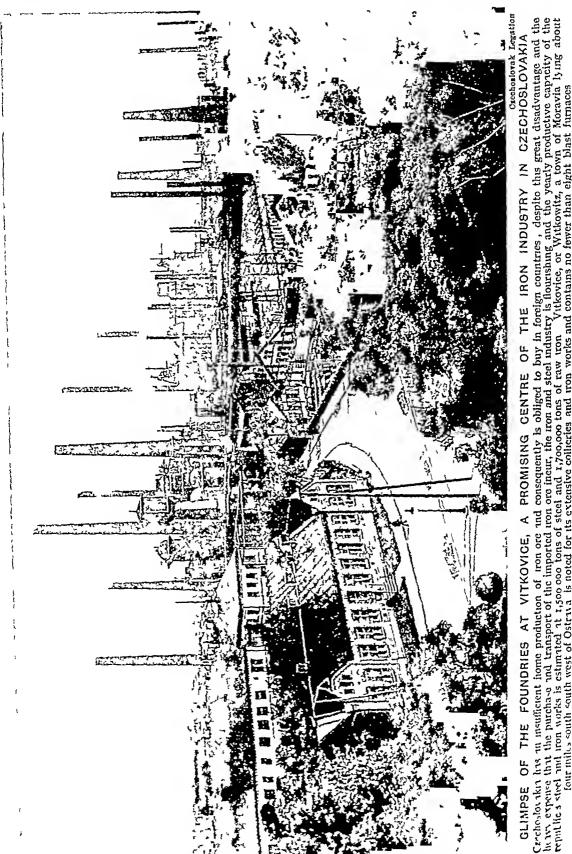
Vienna and Budapest, not on Prague (Praha) or Brno That is why, for example, in March, 1920, the National Assembly allotted a considerable sum to the improvement of the service, double tracks are being installed on the main lines and new lines are being constructed

About 33,000 railway carriages. trucks and other conveyances which had belonged to Austria-Hungary were consigned to the new state, while between 1920 and 1922 the local workshops turned out 28,000 carriages, and anyone who has travelled in the republic will look back with pleasure on his ex-So advanced, indeed, is this perience special industry that Pullman cars are being made for American railways, not to mention those of European states, such as the Serbian lines

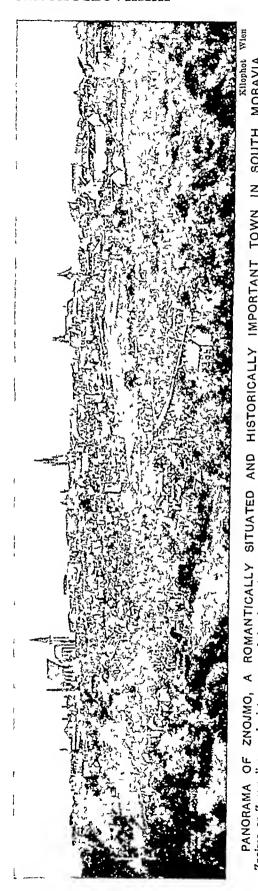
The rivers are mainly of importance for goods traffic. We have referred to conditions on the Oder. As regards the Danube, there is no doubt that an extensive trade on this river may be anticipated. According to pre-War statistics nearly two million tons of goods



HOARY WALLS OF AN OLD-WORLD CHATEAU AT ZVOLEN
This ancient tropchell eften occupied by Mat hias Coronias Rang of the are who reinjed in the
fifteenth contains, reason the left hank of the brilates near Zvolen and of the aim of familials.
In man by its Corman none Altsold. This town is situated on the Giram of Hold a record in
the Lo. Fatry and fluxing into the Danube after a concept when its its







whole of Moravia by the Přerov-Bratislava canal, which is 112 miles long

In order to reach those parts of the country where it has been too expensive to build railways, various automobile services are now running A line, of aeroplanes is in operation between Prague and Bratislava, which will probably be extended to Užhorod The skill of Czechoslovak pilots was shown in the summer of 1923 when President Masaryk spent a long time in a castle in Slovakia, and a daily service was carried on between there and Prague without one hitch However, it is not primarily the airways but the roads needed for a country's that are prosperity In Czechoslovakia are regions insufficiently furnished in this respect and it often happens that the villagers combine to build them, aided by the Ministry of Public Works

Before the Great War the Czechoslovak territories supplied the needs of the whole Austro-Hungarian Empire, and only about 30 per cent of the goods produced went to satisfy home require-As an independent state, therefore, Czechoslovakia possesses (on a pre-War basis) an exportable surplus of 70 per cent Actually, production having increased since 1914, this means a far greater quantity of goods than was exported before the War The trade of Czechoslovakia is that of an industrial country, importing chiefly raw material and foodstuffs, and exporting finished manufactured goods Moravia has great iron and engineering works, northern Moravia is studded with important textile factories and the largest European cotton mill, employing some 8,000 hands, is situated at Ruzomberok in the province of Slovakia

Owing to her geographical position the chief markets for Czechoslovak goods must, apart from Germany, necessarily be in the south and east, that is, in the countries formerly constituting the Austro-Hungari in Empire, the Balkan countries, Poland and Russia, the two last-named, when their political conditions have become

stable will be extremely important to Cercho-lovakia both for the import of foodstuffs and raw materials and for the export of finished goods. Competition with the western countries will be permanently maintained only in the case of those products which are a speciality of Czechoslovakia. The largest export items for 1919 comprised sugar (... o per cent ) coal and timber (186 per cent ) while in 1020 wool and woollen goods formed 20 6 per cent class and clas ware to 3 per cent with sugar only 137 per cent in 1919 the United States contributed 250 of the imports and Germany 14 per cent whereas Austria took 29 per cent and Germany 19.2 per cent of the exports. It may cause surprise that Au tria should occupy the first place but she has not yet lost her ancient role of distributing centre to the Balkans. Crecholovakia is trade balance must be judged with the greatest caution. Both in 1910 and 1920 there was a delint trade balance but in the latter year it was considerably smaller. Thus it may reasonably be assumed that a continuous improvement is falsing place.

This depend also on the increasing stability of Czechoslovakia's neighbours for the found herself for some time



PICTURESQUE STRAMBERK, A TYPICAL TOWN OF MORAVIA
The small town of Stramberk, beautifully located in the hollow between Actord and Bill Hore, northsect of Irrentat, a f ' roomic presert of tourness and artists. The cession on the billiop has long gone
to run me its second including a smoot forpointe, but the tower, so feet high locally known
as the "Trible," a proserved and forms a prostily compactional indiments for milet around

after the Great War very much in the same position as Great Britain, with a rate of exchange comparatively so high that her neighbours could not afford to take her products. She must generally hope that her neighbours will become more affluent, although from their unhappy circumstances she will also derive some benefit.

# Profiting from Neighbours' Misfortune

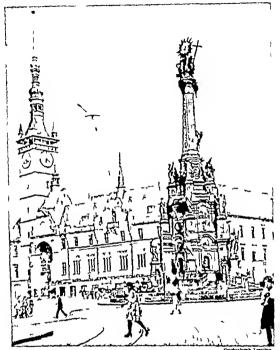
Thus the carpet-making industry where unemployment was rife a year before, was in 1923 working overtime because of the state of things in Germany, where the wages had risen to such heights, owing to the terrific increase in the cost of living, that America, Sweden and other countries who never before were in the market for Czechoslovak carpets transferred their custom to that country

The rural conditions that prevail in Moravia are very different from those Particularly in the rich of Ruthenia agricultural Hana region and in southern Moravia the villages often have the appearance of small towns, with electric light in all the houses, surpassing in this respect even Boliemia. When we come to the villages of southern Slovakia, where the people are quite well-to-do, there is usually more decoration and less hygiene. In house after house one finds the wills punted with charming traditional designs in several colours Guly wrought potters and rows of pewter vessels stand upon the shelves, and the women of the household spend a good ded of their time in the makin? of mirrortely be intiful embroideries for their Sunday perments

practical way the continuation of this ancient industry. When the villages take more interest, as they are being taught to do, in hygiene, the republic will be able to point with pride to the idyllic life of its Slovak peasants.

In the poorer parts and in the mountains the conditions are much more primitive, and especially is this the case in the remote homesteads of Ruthenia. Frequently the cottages consist of a single room, the greater part of which is taken up by a stove whose upper surface forms the family bedroom. The small windows may not be nailed up, as in Galicia, but serve more for the introduction of light than of air

Moravia does not boast of many cities Brno (Brünn), the capital, used to be called a suburb of Vienna Lying in a delightful landscape of hills and forests, this pleasant, busy town, with many textile factories and with the fine buildings of the provincial authorities, with picturesque winding streets and with modern, tree-bordered avenues, is the home of well over 100,000 people

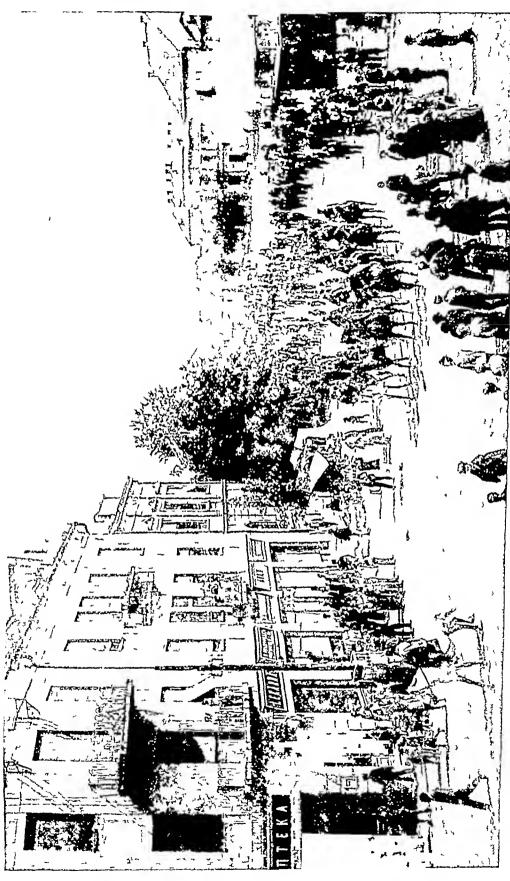


MONUMENTS OF BYGONE DAYS IN A SQUARE OF OLD OLOMOUG Common, or Obmitte, in Mora La, lies on the Moraya, at miles north-seat of Broo. A trong fortress down to Styl the town is ruch in beforeas? writesters, but time has played he is all it much of the older architesters of the best played he is all it much of the older architesters of the Upper Synary now have now. Wilsoprov. I menu the filterals received you has last stand and early by the Frontity Colleges, as commate structures during from 157-128.

Wenceslaus III who was assassinated here in 1306 and is interred in the cathedral. The "Trinity Column (1742) strikes one as an appropriate embellahment for an archiepiscopal city more so than the large number of religious statues and fountains in the

towns of Bohemia where many of the population regard these grits of the eighteenth century Habsburgs with an absolute indifference.

At holice (haschau or hassa) the administrative and cultural capital of castern Slovakla is what was the finest



The territory of Carpathian Ruthenia, lying at the eastern extremity of Czechoslovakia, was added to the republic as an autonomous area by the Treaty of St Germain in 1919. It is rich in varied natural resources and contains about half a million inhabitants, consisting mainly of Little Russians or Ruthenians, though Jews form the bulk of the inhabitants in the towns. Its chief towns are Užhorod, or Ungvar, and Munkačevo, or Munkacz. The former, erstwhile capital of the Hungarian county of Ung, hes on the Ung, a small tributary of the river Bodrog 80 miles north north west of Debreezen, and has a noted pottery industry CAPITAL OF AUTONOMOUS RUTHENIA CZECHS IN PROCESSION OF

Gothic church of Hungars for the catheriral with it polygonal cliors and the magnifectit open work caregy reminiscent of the capleits of the Nutrin Jerg matters is a much more remarkable church thin any in Budapest. Assiste it an ancient royal free town with some 40 000 inhibitants. It comists of a regularly built inner town formerly a fortice, and three subsitis.

leuthenia s capital. Ulborod, has been altered nearly out of recomitten inceth Creat War. Vibit was at that time a rather duty trugpling place on ler a moul Cred-Catholic cathedral and a semining situated on the billion, is becoming a clain little fown of a phalt streets and Bohemian here for the Carch authorities have been followed in commercial people of their own race and the lattlenes and Jows the pre-War are having their eyes minintant opened. There as in other towns of Ruthenia, the Crechs are doing all that is possible for the advancement of their hitherto reclected Slav britisen homel for instance being the head quarters of a Rutheman theatmeal troupe which subsidised by the government travel from place to place and it assist ing to civilize the native

## C/FCIIOSI OI AKIA GFOGRAPHICAL SUNINARY

National Districts. West Indomnia (y v) midal) Moravia passage may be Moravian Cate letwern the oil presentation of the properties of the properties of the properties of the Mora a draumit to the Danute and the beadwaters of the Oder drauming to the Battle cat Carpstidian half-country between the summit of the West and East Beckies the High Tatra and the Lorest Carpatidians and the Alfold the great plan of Hungary, Moravia lies between the uplands of Jidlava and the Little Carpathians.

Climate and Legislation Transitional climate between the ocennic type of Western 1 urope and the continental type of Revisi (C. Polsand) Biohemia more oceanic. Ruthenia is more continental. Throughout the country the elevation of most of the ursace intensifies the cold of uniter and modifies the blanc of summer beat. The uplands are forested, and the valley floors of ancent date and well filled with alluvium, are cultivated when the floods permit.

In Moravia and Silesia the condition of public health is at least as good as the average of Western Europe but in Shraka and especially in Ruthenia much remains to be done. By verbal in truction and in means of numerous booklet, the people are receiving belated Lumbedge of how to care for themselves For example, it has hitherto been the practice in Ruthenia for a woman to take a gulo of strong alcohol after giving birth to a child, and to pour a little of it down the child's throat. Where the Solol (th. famous exmunastic and cultural society) of the Crechs has estabh had uself there the physique of the people is naturally improved. The Meravians are n arty all members of a Solol and in Slovakii the system n making good progress. mentally these Slavs are fair. And as for the influence upon them of their environment, it is a fact that in the most fertile parts of Moravia the prosperous Hanaks remand one of the Dutch for if they are slow they are resolute The Floraks on the other hand, particularly those who dwell among the footballs of the Carrathians, are of a more fiers as they are very often of a

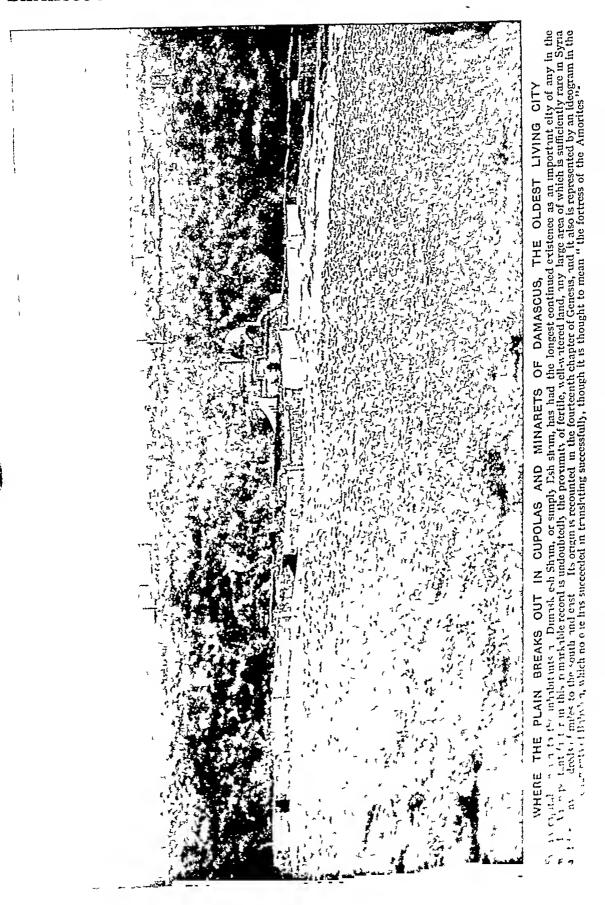
Product: For coal see Hobernia and Salesia Oul and salt occur in r latten to the Carpathians (Cl Poland is e Galicia and Rumania). Moravia grows the most cercals on both sides of the Little Carpathian sugar belt cover extensive areas. Pino is a great centre for wollens

more religious nature

Communication: Until the process now in hand, of improving the railway routes from west to east the railways are dominated by the neighbouring great commercial clier Berlin Virona Busia perf Warsaw Bartislava (Presburg) is the centre for banube traffic and the niers awalling canal connexions, like the traffic and obtained by the shortest routes scrow the frontiers to foreign capitals.

Outlook The Creck mission to improve

the commercial value of the country a products and the tandard of life of the people which both decrease in importance with increasing distance east of Prague promises that Czechodovakla will become a farming and industrial country with better aspenditure than Austria and greater indusines than Ilungary or Poland.



## DAMASCUS

# Changeless City of the Syrian Plain

# by Richard Curle

Author of "Into the I a t t

D MASCL's is one of these cities which harst udd als upon the stew You approch it through the narrow win him at an valley followin, the curse of the forming Biradi (the Mana of the Oll Testa ment) and there is search a hint of its nearness until all at once the valley ends and the great town our mind, that it will be not orchard, he shungs before you have the control of the control of the stewn of the ste

Historically the oldest of all living Damascus till retain an alm st undiluted flavour of the Orient. In the crowded closenes, of its marrow street and covered bargars there minel, and pa s all the types of the Near Last Caravam with tolucco from Bugdad and with silk carrie is from I rea dark hard Iralis with cam I hair turbans from Yemen palerum haytenme toward Mecca -many Mahomedans Damascus the real starting point of their journey to M yea-furtise Eastern Jews Levantine Christians of primitive falth bearded Syrian merchants in their lambswood coats, sellers of roasted beans or fresh water whose rancous cries are heard above the ecaseless chatter of the hazzars and the confused rattle of the streets, all these and many more give to the whole city an Oriental pageantry and colour

#### Easily Swayed Crowds of Damesons

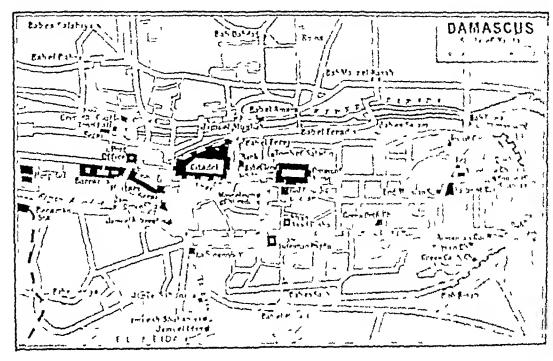
The Damascus crowd Is Intervely excitable. I have witnested a huge throng of men awayed littler and thither like leaves by a chance orator or a chance rumour assemble all at once before the governor's palace to protest against the excessive price of bread Such moods are dangerous while they last but they die out as quickly as they me and the mask of Orental fatalism.

and acceptance will cover again in a moment the gestudating mit, whose menacing cities and 1-51 rate in hes would make one think that a serious not wa about to break firth. In the La t long uifting has in level, become a second nature and the very finatics praying in the meques or on dusty andfull unit if higher or on dusty and have a hole of toral resignation with nearly to the earl of this world.

## I fed to ! Ports and Dati & House

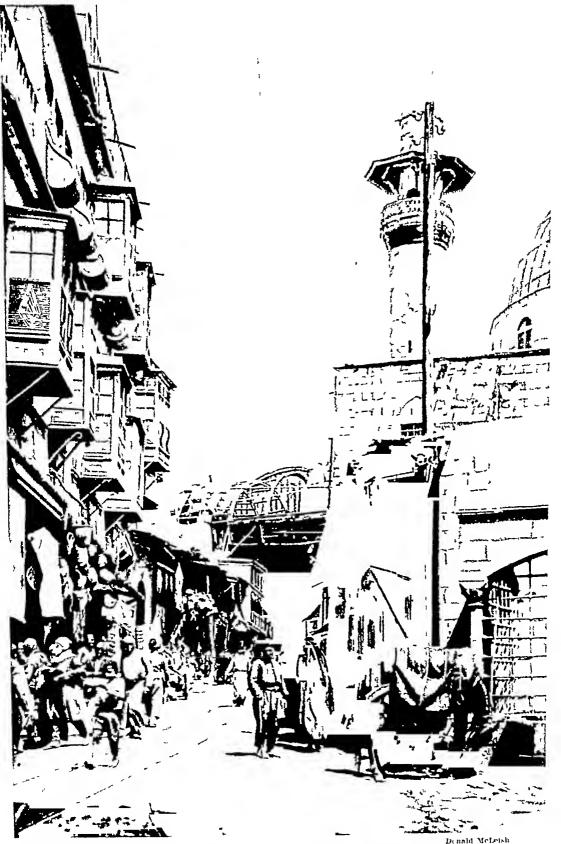
There a no lone r active ill treatment of the Chartum or the Jean but on there proud Morlen fac a I have seen extres ion of contimpt and lateral withering in their completenes are it is true thees in Damascus into which it is not safe for the trane r to stray but peaking guirally the worst that one need expect now is to be hu tled or curved at You may even enter the Ommiad Mosque itself as I have entered it provided that you remove your hoes. Is for the Turkish baths for which Damascus like many an Oriental city a famous and on which some of its finest decoration has been expended an infidel may enjoy their delights as freely as a Mahomedan Similarly in the eating hou es in whose dim recesses dishes of mutton cunningly disguised and sweetmeats all froths and slekly sugared may be devouted with a gusto which If not entirely gastronomic, is at least created by the spell of novelty And the merchants however pious they be are only too willing to sell to an unbeliever and all I may add at an exorbitant price

It would not however be safe to try to purchase one of those illuminated korans on which one cannot but cast DAMASCUS 1572





DAMASCUS The huge maque of Ommiad almost burnt down in 1803 decays slowly a patchwork of colours in the Syrian sun 1573



Damascus In the vivid bustle of the cloth bazaar there is always a crowd examining the bright clothes displayed there for sale 1574



DAMASCE Deeb el Mustakun the street which is called straight runs almost the length of the han and ferninal s at the Ea Cale 1575



Dimascus The scourge of Damascus has been fire, and surprisingly few antiquities are left 1 fire destroyed the roof of this bazaar

1576



DANASCUS The Khan Is ad Pasha is the finest of the kh inst the telepillars of black and yellow marble Round the court are reses of he ps.



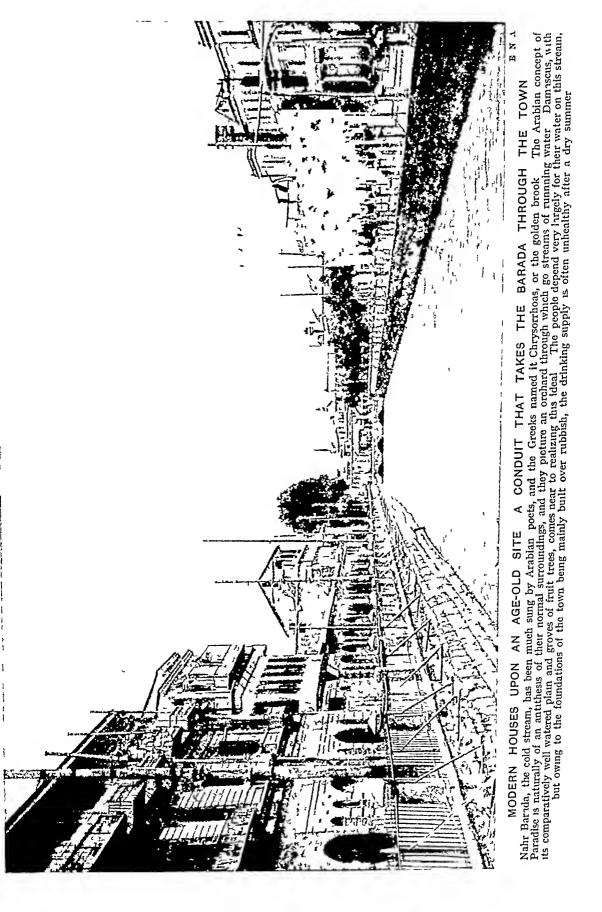
Damascus In the Ommad countyard is the Kubbet el-Khazneh, "dome of the treasure," with its borrowed Counthian columns 1578

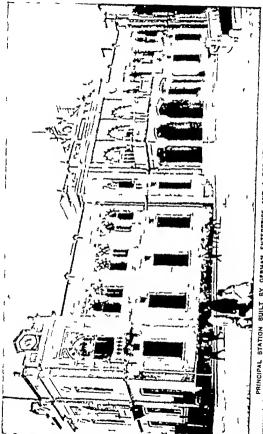


DAMANUS This dilapidat d but still beautiful marble canops protects a spring. The cits water comes manuly from Barala 1579



Damascus Near the Bab el Amara, one of the two northern gates of the Ommiad mosque, stands the numed tomb of the great Saladin 1580





DAMASCUS 1584

four-square amid its teeming orchards. To walk through these orchards, to escape into them out of the glare and the acrid smells, is like walking into a green twilight, full of delicious odours and the song of birds. Gardeners dressed in flowing white, like priests performing ceremonial duties, appear and disappear among the trees. A deep silence, made only deeper by the sounds of nature, encompasses these orchards, which seem to stretch interminably around one

One walks and walks as in some magic garden, and even here, in the new blossoming of the spring, there is the feeling of an aged world and of something changeless and Asiatic. The chill of the coming night falls softly as the dusk filters through the trees and far off in the city you hear, faint and clear, the high-pitched cry of the muezzins from the mosques calling the faithful to prayer. As one man all the gardeners throw themselves upon their knees and, with their faces turned towards the holy

city in Arabia, recite the prayer of evening Thus one's feeling that they are priests has, as it were, a visual confirmation at the decline of day

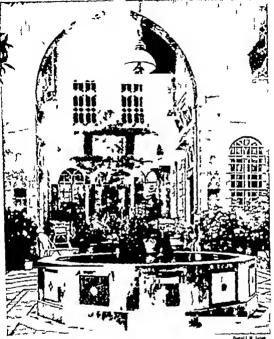
Although Damascus is so decidedly a town of Mahomedans, there are nevertheless large Christian and Jewish quarters whose inhabitants, living in the most tortuous of narrow streets, resemble frightened rabbits in their nervous humility and their anxiety not But they cling to their to offend faiths with an age-old tenacity, and some of them are people of considerable worldly substance It is curious to think that the finest example of an ancient Damascene house is in the possession of a family of Jews, but then it must be remembered that Mahomedans have none of our Western craving for the preservation of famous buildings or for archaeological research

Even the great Ommiad Mosque, one of the most celebrated of all Mahomedan mosques, is but a motley of old and



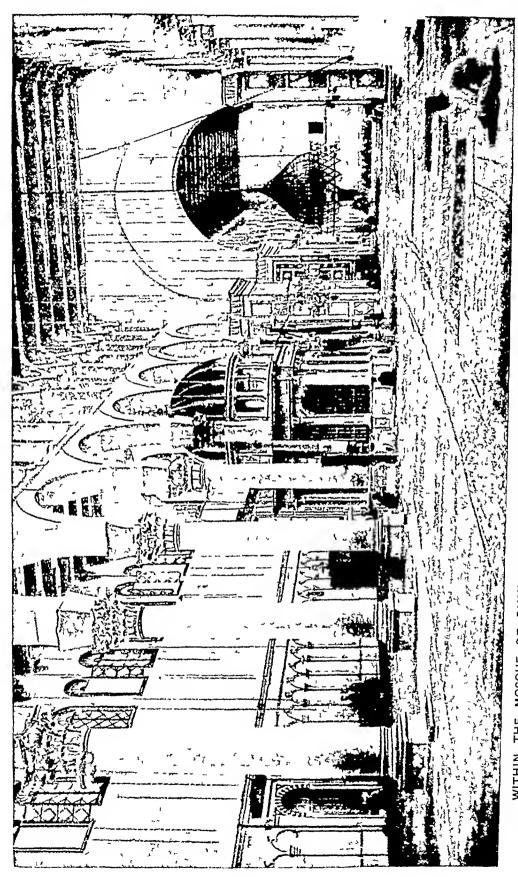
GATEWAY OF GRECO-ROMAN DAYS BY THE FAMOUS OCTAGONAL MINARET Dama cus became a proximilative of the Roman I impire in x is 150 in the time of Trajin. The town was later included in the Byzantine I impire and when the Arabs ander Khalidahu Walida sto medit in 635 it was a Byzantine garri on that they encountered. This a teway beside the deautiful manaret of the Ominial Morque serve for mean real of be they leter in Lyanquishe I.

ISMS DA MASCUS



LUXURY MOORISH AND MODERN IN THE HOME OF A DAMASCENE Damascen has ever been criticated for the luxury of it writibler bosses. And this effect or aparatiscores is the more training in that there is notice little based to too tike. One cross-from the tiding and ode ons street where the its bisumers in the better ball irrariant with fluxures and cold with praising as for Alon a has the outpast of to it from the Accurated the training to the Alon a has the outpast of to it from the Accurate Alon and Jettic light

new Much of the original building was burnt down at the close of the intercenth century and though its structure 500 feet long and 350 feet broad at the widest is Impressive and of noble proportions, yet it wears that rather garish look which inevitably char acterises patchwork architecture. Its history goes back to long before the era of Mahomet. It was originally a Roman temple. It was then a Christian church and now for 1 300 years. It has been a Modern sanctuary. Such facts show the hoary antiquity of Damaseus.



It is said that 1,200 craftsmen were fetched from Constantinople for the achieving of this masterplece in marble and mosaic, and that Syria was ransacked for beautiful columns to deck it. Vast sums were spent in constructing it, the ceiling, of wood, was inlaid with gold and from it depended no less than 6,000 golden lamps. But in 1069 much of this magnificence was destroyed by fire and in 1893 it again suffered, and although restoration work was carried out on the original plan the building as it is now but serves to suggest its former wealth. In yet earlier days the site had been occupied by a Roman temple BY GREEK CRAFTSMEN AND PRAISED THROUGH ALL ISLAM WITHIN THE MOSQUE OF OMMIAD BUILT

And while I am peaking of build ings let me mention the marble court varde locked maybe by a green til d minaret standing again t the ky and with a fountain playing in the mid t of orange and himon tree planted in the textlated flow of which one may sometimes catch a sight through a suddenly-opened door leading on to the footpath of a bu v street ional glimpies of an Orient unk in returne and calm brane untroubled beside the seething by the of the treet are at once refreshing and inviteriou They werm to neget that Latern tranquillity and akedness that love of the beautiful and the e-n ums which one feels through all the outward tur mode of the Lat

The pariah does of Damas cus htter the streets in incredille numbers. I sti mates put them at 30,000 and they live one and all on chance refuse on earnly charity and, indeed, on any thing they can pick up. They dwell in colonies—princitimes there will be several different colonies in one street—and the does of one culmy will never allow the does of another colony to approach too close.

## Parishe Tolerated of the Domescene

Frequently of an evening I need to go to a near by lakers shop and arming myelf with a handful of flat Arali loaves wander about the streets and feed these half-starved vellow curs. Several of the local colonies got to know me quite well but I am afraid that their affectionate erectings were entirely prompted by the state of their appetite. In truth I should magne that those dogs-which of course are unclean animals to Mahomedans and of which no Moslem would dream of making a pet-are quite incapable of the loyal affection to a master displayed by European breeds. Long centuries of living by their own exertions must at least have given them a strong independence of spirit They were lazy but care-free they passed their days basking in the sun and their evenings

prowling for f 1 th v were tolerated net only because this were excellent scareneers-out ide the wall. I have wen many a dog eating up the remains of dead camel but because oddly enough the inhabitants of Damascu evanced a kind of generic as apart from personal affection for them. They were part of the city and a Malsomedan when ill would frequently order bread to be detributed among them a acts of charity are held to be men topous. To me they remain as part of ms picture of Damascus and I cannot walk about its treets in imagination without picking my way carefully through the various colonies

## Treme and Cinem i Streng Settlne

Of all towns in the world there t probably time in which the worders of progres appear more incongruous The railway for then in Damascu tunately skirts rather than enters the city and even the electric tramway -a repulsive anachronism in 18th surround ings-does not seem to merce the city proper. But I have sat out a cinema performance in Damascus and nothing could be more hopelessly out of place than to watch a body of fierce Araba and fanatical Syrians gazing at the trivial episodes of a French comedy I wish the East did not take so readily even though it is only the surface of life that is scratched to Western Innovations. An up-to-date Damascus would verily be a Indeous contradiction in terms you might as well rewrite Shakespeare In the slang of Broadway It is the very feeling of changele-speas that gives to Damascus the harmony of the Immemorial Orient

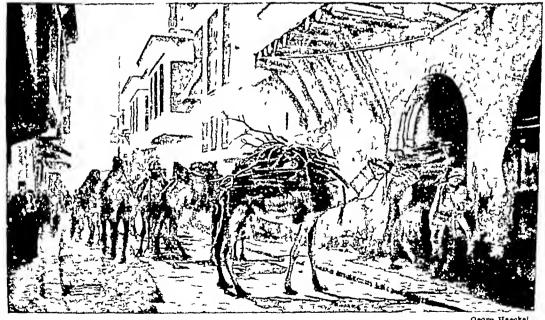
## Floody Workmanship al To-day

It must be admitted that so far as artistic performance is concerned the people of Damascus lag bedind. The Damascus work of which we hear so much is crude and granh as carried on to-day. Once perhaps their goldenuitis and coppersunths were great masters but now they are murely conventional



ROOFED BAZAAR IN THE STREET WHICH IS CALLED STRAIGHT

This portion of Derbel Mustakim is known as the Long Bazaar, and has altered substantially, unlike other parts, since the days of Ananias, who is said by the legend to have named it. Once it possessed a colonnade, and some of the columns may still be seen incorporated in the houses one of the most enlightened men who ever ruled Syria, had the street widened for a carriage road



Georg Haeckel

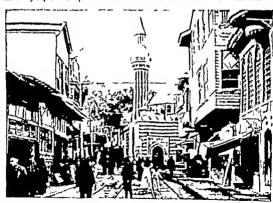
CAMEL LOADS OF FIREWOOD FOR A DAMASCUS HOME

Firewood is somewhat scarce round about the city, and the collecting of it is apt to be a protracted and wearisome business. Here a collection of logs and faggots is being taken into a building that might have been erected in Bible times, but that yet carries the insulators and wire of a telegraph line. The details of local house construction can be seen, and reveal undressed logs under erumbling plaster

workmen with fd as of tale and originality that would hock a Birming They are lond of ham lesciler producing tables infall with mother-of read camel bone and various woods but I am urprised that anyone could he induced to buy such tables. The same inartistic consciou ness causes them to replace their crumbled buildings by Western mod is of utilitarian neliness. As Dunascus is gradually rebuilt so will it crashalls love the unique character of its aged and beautiful picture-queness. Its mhabit ants will be quite unaware of what they have list wrapped in their religious lers our they have no ever to see

The firest things produced in Damascus—trouble on looms of a primitive nature—are the silk cotton and wollen stuffs. Some of these it must be admitted, are of lovely texture and design mainly of a traditional character and a vi ti to the slope has led many a person to spend much more than was intended. It is by these final lef minufactures that Damaseus really preserves some right to speak of it elf as an arti-tie centre. But the workmen in the various trades, full of an almost fatuous self-complacency, are formed into guil! which know very well how to keep up their own importance.

The most favourable period of the year for a visit to Damascus is in the early somne when the almond and approx blossom has thick upon the orchards and when the wild flowers of Syria are at their lairest. Yet those elonous days of hot un hine close with a treacherous chill and the nights are often very cold. But that surely is not a drawback which need deter a careful traveller and the warm beauty of the day especially in the shelter of the shaded orchards far outweighs the latter coldness of an occasional night It i truly a town of extremes in climate but after all Damascus is in the East and the Fast is the land of extremes.



Gerg Rescate

BEAUTIFUL MOSQUE OF DERVISHIYA TWO HUNDRED YEARS OLD

BEAUTIFUL MOSQUE OF DERVISHIYA TWO HUNDRED YEARS OLD

of drowntiles Moseth work in the shape of founties. It sard can be seen abon, and the same of counties the sard can be seen abon, and the same of th

**DANZIG** 



FAMOUS BUILDINGS IN ONE OF DANZIG'S MAIN ARTERIES

Not least of Danzig's fine old buildings is the Rathaus, or town hall, standing at the corner where Long Street expands into Long Market A Gothic building, with a slender spire crowned tower 270 feet high, it was first erceted in the fourteenth century, but remodelled in the sixteenth century To the right is seen the fifteenth century Junkers' Hall, with S Mary's Church tower rising behind

## DANZIG

# The Independent City-State

# by W H Dawson

Author of "Ti 1 plation of Modern Germany " t

Till city of Diritie item I frear like lay of that name at the ca tem end of the Baltie is one of the old. Hanseatte cities and his been immemerably an enterpot for the trade between N eithern Ru sta and Germins these in the left hank of the western arm of the river Vi tola locally known as the Danny Vi tola locally known as the Danny Vi tola locally known of which from the coast while the territory of which it is the capital expartes Last Pru ta from the Polis h Corridor.

Lik Hamburg the town is intersected in the water of a tributary of the main tream here the Mottlan which enters from the routh and east after lone meanderings from the Werder Land where it now while another inbutars the kadaune i sung from the remantic Radaune Valley flows through some of the western suburbs of the town. The Mottlag in particular has been put to the last possible practical use by the construction on its banks of docks and muses with the result that vessels of considerable size are able to load and unload in the very centre of the town, The town was formerly approached from the river by a series of water gates which the civic authorities took care to close at nightfall

### Shipping B king and Other Industries

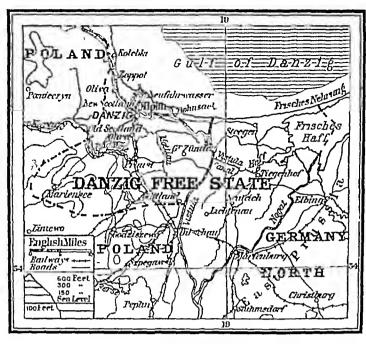
The principal port lowever is at \cufahiwasser lying at the mouth of the Vistula. This harbour with the adjoin ling canal over 1,000 yards long was constructed by the municipality at great expense in the middle of the nineteenth century when the old em bouchure of the Vistula had been silited up making it impossible for any but light craft to enter the river. There is railway as well as river communication between the port and the town.

Danzie has a many ideal industry besides it great hipping trade husbuilding yard at one tun had a steads output of vessel of war and mercantile vesel are still largely built here there to the important marine and other ingineering wirk. Decomptive and warron work - bemucal rda paper mit hit hare al varmi h and other factories Arms and ammunition used to be made in a large scal but this tranch of manufacture has for obvious reasons declined. The binking trade of Danzie a commenting link between Germany Ru is and I oland, has long been considerable, and it is likely to be larger in the future

## T as by of the 11 neetle Town

The town had gained a position of relative importance and prosperity early in the Middle Age, and midway in the fourteenth century it became a leading member of the Hansa. It obtained most of the attributes of a free city in the following century subject to the suzerainty of the king of I cland, whose protection it had invited. Its political rights were tenaciousis guarded at times by arms, and were only lost in 1793 when on the second partition of Poland the town was incorporated in Prussia During the French wars at the beginning of the nineteenth century Danzig was for a time a free city under a French governor but in 1814 It returned to Prussla of which It remained a part until 1919, being the administrative capital of the province of West Prueda.

By the Treaty of Versailles the town with its adjacent territory was reconstituted a free state under the protection of the League of Nations subject to certain privileges and franchises conceded to



FREE TERRITORY ATTACHED TO DANZIG

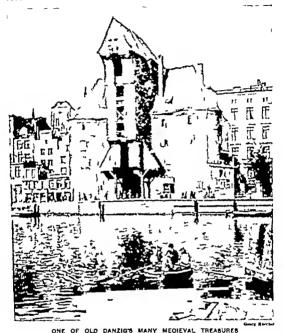
and cut off from any close contact with the main streams of Continental life, Danzig has preserved its individuality in a remarkable manner All sorts of peculiarities, large and small, mark it out as a city apart from other German cities, though it yields to none in its strong national spirit Most medieval German towns fall into two main divisions, the Old and the New Town, but Danzig has There is no building five stone in the neighbourhood, with the result that the town is almost altogether brick-built and

Poland During the discussions the Poles made desperate but unsuccessful attempts to include the port, with much other territory to which they had no claim, within their In point of new state fact, the Poles form an ınsıgnıficant handful the inhabitants, insomuch that at the elections to the Danzig Parliament in November, 1923, were only able to poll 4,600 out of a total of 165,000 votes cast and to gain five seats out of a total of 120 Happily for the city and its population the new order has been fairly regularised, Poles knowing exactly the limits of their rights and the governing authorities of Danzig showing every desire to live on peaceable terms with a new yet very old neighbour

Isolated in the distant north-east of Germany,



STREET PLAN OF THE WATER-GUARDED CITY



The Montain NR. Or OLD United States memory metallicans. Introduction The Montain Control of the States of the Sta

red-roofed. Again, Danzig does not speak of streets (strassen) but of gassen, a word usually connoting in western and southern Germany thoroughfares of a second or third-rate kind and its place nomencia ture abounds in local odditles. There is also a Danzig dialect it is also aparticularly melodious and its downly contractions like tiose of the

Bavarian dialect, are an abomination, but it has a homeliness and local colour which attract even inhabitants who would never think of using it.

No old German town is more distinctive and none has preserved its medieval style of architecture more faithfully than Danzig There are four or five principal entrance gates, with a host of water gates opening on the river and its connexions The most notable of the town gates is the High Gate near Lang Gasse (Long Street), leading to the Long Market, a sixteenth century structure built in the style of a Roman triumphal arch

# Civic Architecture in the Older Streets

The centre of the town is a maze of quaint, narrow, winding and often cobbled streets and alleys, sometimes communicating by arches and often ending with a water gate at the river They make a spectacle delightful for the stranger to look upon, but they are the reverse of helpful to the traffic of a population of nearly 200,000 Many of these streets are full of picturesque old houses, exquisite' in form, decoration and colour, with handsome façades, tall pointed gables, often beautifully ornamented, and highpitched roofs of red tile The fronts of the stately patrician houses in particular are lavishly ornamented, their gables surmounted by stone figures—a griffin, a goblin, a monkey and so forth

A peculiarity of such houses is the veranda on the ground floor, facing the street and approached by a short flight of steps Unlike the house itself the veranda is invariably of stone, and the front of the containing walls is usually carved Where the steps have railings the lower ends of these often rest on liuge stone balls or other ornamental masonry, and the railings themselves are fine specimens of antique iron and brass work Convenience of traffic has led to the removal of many of these verandas, to the advantage of the basement rooms behind them, but they are still found in all the old streets

# Resort of English and Scottish Traders

In past generations there was a close relationship between Great Britain and Daizig, leading to a continuous exchange of emigrants. Hence it is that, just as there are present-day Daizigers with names which unmistakably betoken their Luglish or Scottish origin, so there are in Great Britain many nationalised.

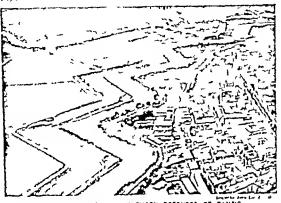
families of German descent who came from the Baltic port early in the nmeteenth century or before Various memorials of this international intercourse survive in Danzig There is an English Road, two of the suburbs still bear the names Old Scotland and New Scotland, and one of the architectural gems of the city is the beautiful old English House, which is supposed to have served as meeting-place and warehouse for the old-time English traders with the town It is a wonderful structure, so high that it dominates the little street in which it stands, for it rises many storeys, ending in a highpitched gable, surmounted by a tower and spire A steep flight of steps leads to a spacious veranda, and the facade, with its serried rows of windows, is one of the most striking in the city

# Centre of Fine Ancestral Mansions

Another old house of exceptional beauty, located in the Long Market, is the Steffens House, the ancestral home of the family of that name. It is in the late Renaissance style, rich yet cliaste in ornament, without the excess into which the style was apt to fall in Germany As in the case of typical old Danzig liouses in general, the front is narrow, but it rises to a height of four lofty storeys, and there is the normal veranda, with basement behind. True to type, the façade is a mass of windows, while rising in front of the high-pitched roof is a stone gallery surmounted by four full-length figures

The finest parts of old Danzig are Lang Gasse, already named, and the Long Market, running to the river Mottlau, both of which abound in typical buildings of great beauty. I ang Gasse is the principal business street, though it used to be the favourite residential quarter before prospering entirens began to build villas on the periphery. The ground floors of many of the old houses have been converted into shops but the upper storess retain their olden plory. The so called Old House is specially interesting

1595 DANZIO



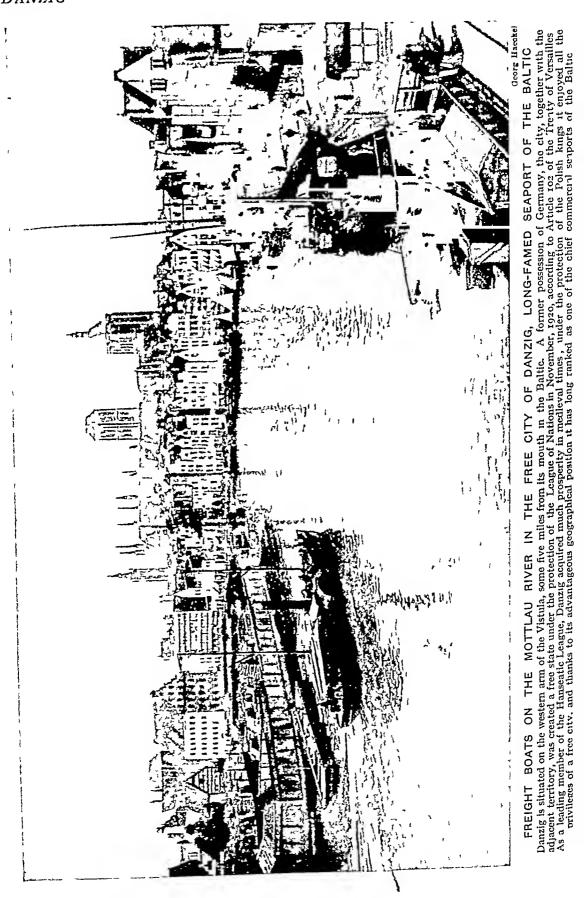
AIR IMPRESSION OF THE SOUTHERN DEFENCES OF DANZIO.

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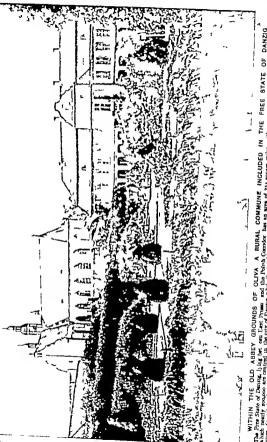


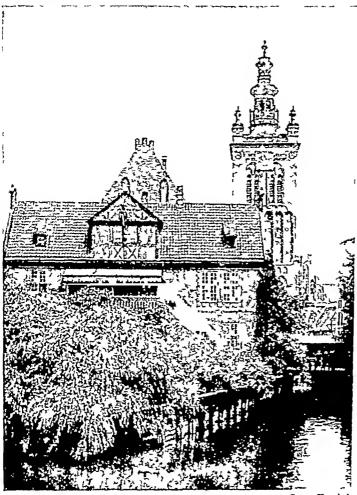
DANZIG'S BEAUTIFUL AND LOFTY SANCTUARY OF S. MARY

1 the preservation of it modernal haracteristic Danzig has spend up pulses a time presence of
many of the houses with aurone justy and lightly decorated guide faculties take the facet
chemb in the city h. Mary Chardt, bellif ten en 1313 and 130.2 whose ten showly
tent and manual 415 food forces one face a face the more number interiors in the unrounding tires



597





PART OF DANZIG'S PICTURESQUE GREAT MILL
Adjoining the beautiful S Catherine Church, famed for its fine
peal of bells, stands the Great Mill, built many centuries 190 by
the Teutonic Knights, and still fed by the Radaune river, in
arm of the Vistula watering the western part of the city

Where the streets are wide enough trees are planted, and their summer green blends beautifully with the toned reds of the weather-worn brickwork. West of the town, outside the walls, lies a number of residential suburbs, like Langfuhr, the prettiest and most attractive of all, and Oliva, where many of the well-to-do families live. To Langfuhr the finest and busiest of the city's main arteries runs.

Danzig has litherto ranked as a fortified city, but its defences, though elaborate, would afford but little protection in modern warfare. They comprise a series of massive rumparts, supported by twenty bastions and by deep mosts, and also arrangements for

flooding the contiguous country at need Defensive works have been constructed on the Hagelsberg and the Bischofsberg. hills lying to the west and overlooking the town, harbour and river, the former being connected with the town by a covered way A succession of blockhouses and other works protect the river down to its mouth, where there are strong forts and batteries, while the island of Holm, lying in the stream, is also strongly fortified

Ancient street names Place, Dominican Dominican Wall, Bishop's Hill, Bishop's Street, Priest Street, Nun Street and the like attest at once a town of strong ecclesiastical traditions Danzig has at least a score of old churches, apart from modern edifices of the two-thirds being kınd. Protestant and the remainder Roman Catholic The finest of the churches is that of S Mary, the

traditional parish church of the town, which was built between the years 1343 and 1502. It is a beautiful three-aisle structure of large proportions, its length being 350 feet and its width 113 feet, with a main tower 247 feet high and a series of ten smaller towers.

It was an ingenious idea of the architect to carry the flying buttresses inside the building in vaulted form, so that the spaces thus gained might be used as chapels. The central tower was never finished and perhaps never will be, with the result that it ends in a graceless cap-like extremity relieved by two peaks. There is much beautiful painted glass in the great windows, and the interior is otherwise rich in treasures.

The wooden high altar is a finely carved piece of work datin, from it beginning of the sixteenth century. There is a picture of the Lat Judgement by Han Memling which to k Napoleonis fancy and found its way to Paris with much other 1 of from Germiny and hu ia, but was all sequently recovered in the ame place is hun a limit led hand, di played I is way of warning ince It i described a having been raised by a chill again this

parent and another conosity is an a tronomical clock of creat are

Daning is equally nich in its secular architecture. Its public buildings form a listery of its commercial development and the political vier studes through which it has passed. The not1 town hall find in Gothic style with a tower proudly ring, to s beight of over 200 feet dates first the fifteenth citium, and is one of the glories of Danie. The council chamber its



OATEWAY AND GRIM TOWER AT THE WEST END OF LONG STREET FROM the seek period of Dandy bittory varied moments has been kunded don to modern times to that survey can be made of the city's architectural programs from the four

panelled walls rich in carving and its ceiling exquisitely decorated, is a gem of art. In the centre of the ceiling is a large circular painting showing in every detail the famous High Gate, surmounted by a bird's-eye view of the city, most of whose towers and steeples are clearly shown. Among the mural portraits is one of a chief mayor of olden times, who is shown as looking down upon the round table where sit the City Fathers, holding up a finger in warning that serious business can only be transacted in an atmosphere of silence and restraint.

# Relie of Medieval Justice

The Stockturm was of old the city prison, and a forbidding building it It is a square structure, the lower part massive and heavy and almost windowless, while above are two tiers of windows, and crowning the centre of the roof is a lofty dome-like pinnacle An uncanny feature of the place is the quondam torture chamber, in which confession of guilt was not infrequently wrung from unwilling, and perhaps at times innocent, prisoners The Great Mill, still fed by water from the Radaune. is another of Danzig's archaeological treasures, it was built many centuries ago by the German knights who Christianised the original Prussians, but the castle which they set up hard by has disappeared The old Franciscan monastery, a building in the late Gothic style, restored half a century ago, now houses the municipal picture gallery and museum of antiquities

# Danzig's Delightful Surroundings

The most famous of Danzig's commercial buildings is the Corn Exchange (Artushof, or Junker's Hall), which was built in medieval times to serve as a meeting-place for the merchants of the city, who were then known as Junker, a term later applied exclusively to the squires of large estates. The Corn Exchange contains a single large hall of noble proportions, its ceiling being supported by four massive granite

columns The walls are profusely decorated with pictures and carved work, representing mythological scenes and incidents

Danzig is fortunate in its natural surroundings The country around is undulating and densely wooded with beech and fir, and contains much scenery of great if quiet beauty The view from the Bischofsberg takes in a wide expanse of land and sea, with, for foreground, a vista of lofty church towers, old streets of red-brick houses and avenues of trees leading out into the open country Along the banks of the Vistula are quaint little fishing villages which are much frequented by Danzig folk in the summer time A popular rural rendezvous in the summer is the Swiss Garden, with the Cafe Schahnasjan, lying beyond the western suburb of Petershagen

## Sturdy Spirit of Independence

There is no mistaking the spirit of the Danzigers—they are characterised by an intense pride of their native town and a persistent devotion to its traditions. This strong local sentiment is unquestionably rooted in historical associations—Few German towns have had a more eventful career than Danzig Again and again it has had to fight for its very existence, it has known periods of prosperity and glory as well as of impoverishment and abasement

One prediction may be made with a fair degree of assurance. It is that Danzig will continue to thrive the early days of the new regime there seemed a prospect that the increasing trade to be expected, owing to the creation of the Polish republic, would at once give rise to unexampled prosperity, and a large amount of unhealthy speculation in real property took place These expectations were damped by the economic collapse of Germany, the internal difficulties which have held back Poland's development, and the stagnation of Russia's trade, yet the free state has held its own in trying circumstances, and there can be no doubt that a bright future awaits it

## DELHI

# India's Capital, Age-Old and New Again

# by Edward E Long

Author of The All India Moslem League etc.

SEE the Delhrs of the past now as I saw them first one day in mid January when having en tered the city overnight from the south I awoke to find the sky dull and grey and a biting wind from the north-cast sacepaig over the plains without the city walls. There was a sting in the air almost as keen as that of impending snow but in the place of snow lay dust a white dust thick on the roads thek on the scanty vegetation lining them, thick on the legs of all those who trudeed shout the helps of all those who

Before me lay a wide plain with one dominating central ridge flanked by the Junua and the modern Delhi on which uprove and fell variously situated the great cities of the past whose rilins scatter the plains to-day—here a massive fragment of a red sandstone city wall there the keep of a medieval Indian fortress, beyond a dome-shaped tomb and mosque farther away a solitary lofty minaret and in the far distance the crambiling walls and towers of a great palace.

#### Procession of the Dribis of the Pest

Indraprastha with its fair-skinned Aryan settlers, the Red Fortress town of Annap Pail Lord of the Tomar Clan Old Delhi the city of the Hindu Chauhan Cline Frithwi Raj greatest and last of his line, who challenged the might of the Moslem Mahomed of Ghor and was overthrown the great Moslem capital of Kuth-ud-din, famous founder of the illustrious line of the Delhi Slave Kings which furnished India with its only woman ruler Raziya—all the Delhis of the past rose before me as I grazed.

Then came Siri, the Delhi of the Moslem warrior Ala-ud-din first to lead a Moslem army into central and southern India Tughlakabad the Delhi of Ghiyasudin Tughlak, the Turki slave who rose to highest power and became founder of a long line of kings. Jahanpanah The Refuge of the World—the Delhi built by his son Mahomed bin Tughlak

### Lond-lived City ( Firoz Shah

Then greatest perhaps of all the Delhis of old Firovabid the creation of Fires Shah destined to outlive all those cities which had cone before be sacked by the cruel remorseless Timur the Tartar afterwards to witness the uprise of the Saiyyid kings and of the Afghan Lodi line to welcome the famous Babar the Tark fresh from his victory on the fateful field of Panipat, hard by over thrahim II the last of the Lodis to remain in peace under his worthy son Humayun until the advent of the fierce Sher Shah the Afghan and then passed over by the renowned Akbar and his profligate son Jehangir to vanish like its forbears in crimbing runs and give place to the great new Delhl of the Emperor Shah Jehan

But what remains of these Delhis of the past? Of Indrapmisha not a stone which can be authenticated absolutely indeed the city itself is semi-mythical, founded, according to the Mahabharata, by Yudisthira and his brothers the five Pandavas. Indra praistha may be a myth but there exists to-day on its reputed site a small village four or five miles south of Delhi which bears the name of Indrapat, and seems to be a link with that first settlement of the Aryans in this neighbourhood.

But history proper starts with the fortress built by Anang Pal where the



SITE OF MANY DELHIS OLD AND NEW

iron pillar of Cliandragupta Vikramaditya, most powerful of the great Gupta kings of Oudli, still stands—a solid of metal, sixteen inches in shaft diameter and over twenty-three feet in height, set in masonry and extending three feet below the surface of the probably, from It dates, A D 400, it is unrusted and the inscription on it is remarkably sharp and clear Anang Pal pult in the middle of the eleventh century In his fortress he erected many temples, and the site selected by him appears to have been that also of Prithwi Rai It is difficult to distinguish between the remains of the two cities to-day, and both are now known as Old Delhi

Kutb-ud-din conquered and converted Old Delhi, as largely as possible, into a Moslem capital, and to his everlasting fame he built the great mosque and minaret which bear his name. The mosque is now in a state of ruin, but that which remains conveys some

idea of the splendour of the building in its prime It consists of an outer and an inner courtyard. the latter surrounded by an exquisite colonnade, the richly decorated shafts which were of torn from the precincts of Hindu temples Originally plastered over to conecal the idolatrous ornamentation from the eyes of the Moslem faithful, the stuceo has now fallen away, and the delicate workmanship of the Hindu artists can be seen in all its former beauty Eleven magnificent arches close western facade. the Mahomedan in outline and design, but with intrieate lace-work detail carried out by Hindu workmen

Not the least of the wonders of the Kutb

Minar is its marvellous freshness, and yet it was begun by Kutb-ud-din in AD 1200 and the two last storeys were added by Firoz Shah 150 years later It towers into the sky amid a waste of splendid ruins and is held by some to be the most perfect tower in the world—certainly it is one of the seven wonders of architecture in the land of Ind A gracefully tapering column, plain and fluted, five storeys high, of red sandstone and white marble, the dark purple-tinted red of the base toning gradually as it ascends to a pale pink and on to a deep orange at the summit, where it meets and blends with the blue of the Indian sky-it is a poem in coloured stone

Siri, built by Ala-ud-din in 1303, hes three or four miles north-east of Old Delhi and some seven miles south of modern Delhi Its walls, 17 feet thick, are practically obliterated to-day, gone is the Palace of a Thousand Pillars, and all that remains is one of the

building of Mi ul fin known as the Hur khys and less? It is vig in a fitter age the tent of Tunis Shah. The mixing letters city. I To blackled it sem four mit senthers to O I Della and is farthest of the officine from the Della of to his. A got I pure of the city walls termin and the run of a great cital I and diserted streets mark it the fluid inhal itants there are none.

Tuchdakal id was down d. wl co its lounder was water dead In It con-Mahemed Isn To this way three attempted to move the wat I concenment they from to Dank taked in the Decean we miles away and th traveller fler Batuta, wherean it empts gives a gr plue include if its devilate macmifeen e it luir and I wried bukhne it nevele tert -a att of the deal ind through it all that stout old warrier Turblah, who built it lept on in lu great tomb which he notinaestin butuna umels (erti fied citadel and with it ma ice wall and bold outlines. Little a pacture of a warner's tomb unrivalled anywhere

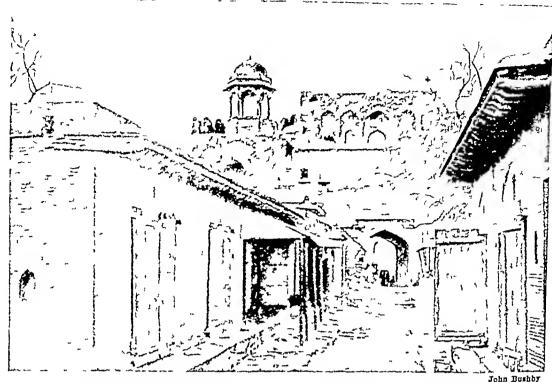
The stee of Talantanah Mahome I Lan Tueldak seits was malwas litter in Surran I Old Dallir lent it wall wit rared to the ground by Shirt State and of these and it deal lines bethin exits at the spent tim Lir z Shab Firstal all was very near to me lim Della lying just would for and in idices estellations, it 11 memoral than the city of collar of Neka ammolith 42 f 1 in height of pal mak want to I man an in contem in Iah It wa set of In I inv Shift near he polace and the poller anci at even then his was held nizihad cramble and all had father along

One after Dellit there has a finding the city of Sher Shift the nitides. Mehan warner whe fought Humayun lead him and sacked far as tad. Lait of the into he letter a frebuilt and then added to it a new portion naming the whol. Shifting there is on it, it is a village buring the nam. Sher Shah cave to he city.

The Della of today and a small province with an area of 5 8

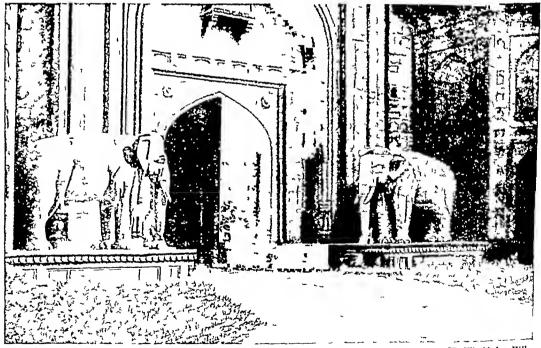


MAIDEN'S HOTEL, A FASHIONABLE MANSION IN THE CIVIL STATION.
Dering the completion of U fine new spiril of India on the stron stopes of the Milks I was the following the completion of the irac for expected by the British set the just the northern stems provided the temperary quarters of the government of India. Experient hot is, fine pirth and chead, of the off coach as it remotemed that district into a very presum residential quarter.



RUINED GATEWAY IN THE HOARY WALLS OF INDRAPAT

Nearly every traveller to Delhi is familiar with the walled village of Indrapat, lying close to the bank of the Jumna, a few miles south east of the modern city. This small village is reputed to occupy part of the site of Indraprastha, founded by the early Aryan immigrants, and although this tradition is held to be correct, no vestige of any prehistoric town is now traceable.



v Wimbledon Hill

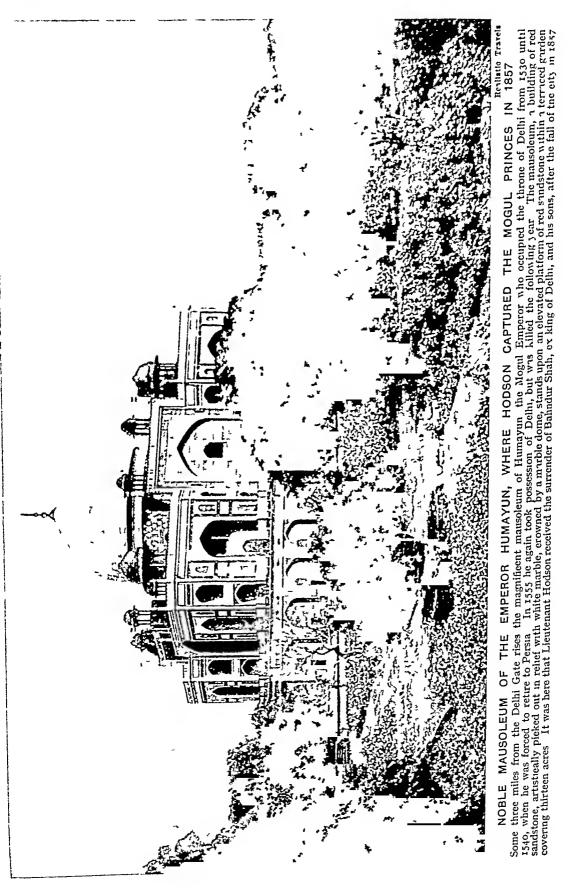
# TWIN STONE ELEPHANTS AT A GATE OF DELHI FORT

The Mogul Fort and Palace, built by Shah Jehan between 1638-48, has two handsome gates, the Lahore Gate on the west side leading to the arcade—"the noblest entrance known to belong to any palace"—and the Delhi Gate at the west corner of the south side At the Delhi Gate, between the inner and outer gates on either side of the archway, stand two massive stone elephants



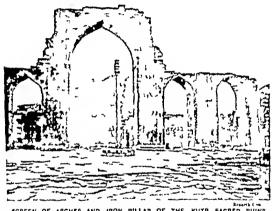
Charded Chark, or Silver Street, the new time effects street in India, is the main thereach) to one Debth and man across the morter in yin . extend direction, from the Fort is the 1 is pural from the 1 minute sparrs in it. externs enterestly, sheet the Northklands Chark Tower the 1 it yi limen loss of which are seen to fulf and 1 are from the Marchel and 100 minutes the alone principle has taken

DELHI 1606



square miles and a population of 485156 (Iblin city 374-46) and is administered by a chill commission. The rural 1 time of the area conest mostly of the Jumna Indiana levile upland plain 1 at well 1 and with a list rainfall that urifest 1 for the mest part by the West in Jumna Canal. The first and Jauna resmit those of the Puryal also the climate.

that has mid, the life so attractive and led chiefs kings and emperors in min to found implies cities therein. The river Jumps less on the ne. (I and the Rikge on the other with the min and only leadt full or I into Hindu tan from the neith possing the neith. South of the rivil a death desert, north in searlife, wamps, and roos trail.

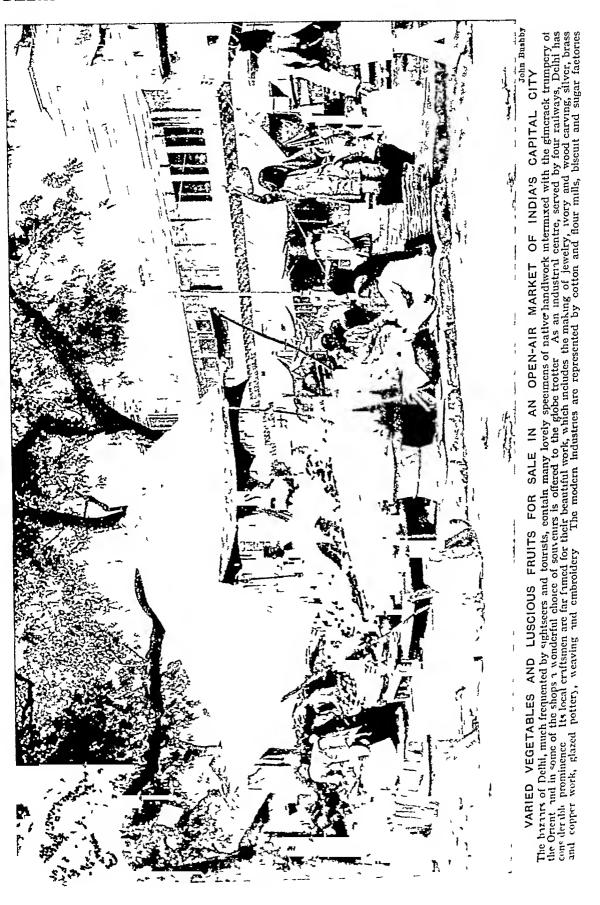


SCREEN OF ARCHES AND IRON PILLAR OF THE KUTB SAGRED RUINS. The K th group of buildings at OAI Debbl I for part the ork of Arth and did Athak who after the capture of Debt is. 3 yet boost the erection of the Monophe and It magablem, servers of arches. Debox the central arch, 31 feet fields, I aut not of India most curricum antiquities, which is not strongst time nearly y test is keight dail groundaily from a year.

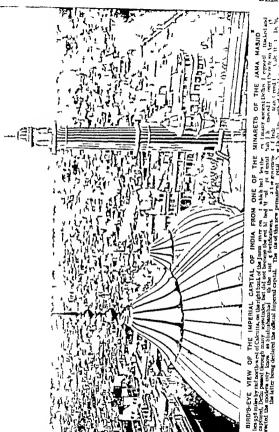
The river Junna flows through the province from north to south and except for a short distance bordering the new Delhi forms the boundary between Delhi frowince and the United Provinces. A prolongation of the Aravalli Hills entering the province on its southern border passes west of Delhi city where it forms the listoric Ridge and terminates on the right bank of the Junna three miles north of the city. It is this commanding position

Jehan built the Delhi we know to-day and the purely Indian part of it remains substantially the same now as it was then—a mass of narrow and winding mean streets sonwtimes ending in a cul-d-sac often lined with as mean houses but studded with beautiful mosques though most of the palaces of the nobles have disapp ared.

The main thoroughlares however are broad straight well metalled drained and lighted and they possess



1609 DELHI





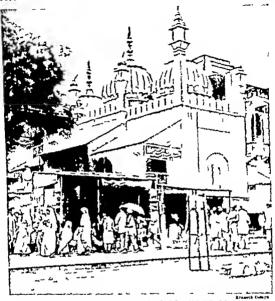
SUNLIGHT AND SHADE IN AN ALLEY OF MODERN DELHI

Encircled on three sides by a lofty red sandstone wall, three and a quarter miles in extent and set with massive gates. Shahjahanabad, the modern Delhi, built by Shah Jehan between the years 1638-58, contains a compact mass of buildings, threaded with narrow winding streets and with here and there a main thoroughfare broad, straight, well ordered, drained and lighted

many substantial buildings, whilst the principal street—the Chandni Chauk once one of the richest streets in the whole world, and to this day beloved of sightseers and tourists, has throughout the greater part of its length a row of trees on each side and is an extremely interesting and imposing thoroughfare The city is enclosed on three sides by a lofty red sandstone wall, three miles and a quarter in extent, with several massive gates, and on the west is flanked by the river Jumna and the

Imperial Palace, known as the Fort Delhi was once entered by fourteen gates, eight on the land side and six on the river, but many have been The principal ones remaining removed are the Kashmir Gate on the north (in the cemetery near by is the grave of John Nicholson), the Farash Khana and Aimer Gates on the west, and the Turkuman and Delhi Gates on the Within the walls of the city are not only the Indian quarter, but a European business quarter and various

DELIII



HISTORIC GOLDEN MOSQUE IN THE BILVER STREET OF DELHI The Soverthyl Judy or Golden Mosque of Roshau ut-datala, rest in the Chandal Chards, or Sil er Street. In 173 when Della was saked by the forces of Nad. Shi in this represent known contacts, the greatest warmed Persua has every produced, it said to be a 5 ton the platform of this best titled associatory as though in resource less allowed the personance of the databatance by the through

public buildings. These are in the north and east and are separated from the Indian quarter by the East Indian Railway which enters the city from the east by a magnificent bridge over the Imma and traverses it westwards

South of the railway is the well kept Queen's Garden with Queen's Road a fine thoroughfare running between it and the railway line south of the Garden and between it and the Indian quarter the Chandri Chauk stretches also from each to west from

the Fort to the now demolylyed Lahore cate a distance of three-quarters of a mile Between the Jama Masjid (in the centre of the Indian quarier) and the Fort are the charming Edward VII Memorial Gardens in which the very imposing and admirably designed status of King Edward was unveiled by the Prince of Wales when on his tour in India in 1921 22.

The Lort Is utuated on the east of the city abuts directly on the river and is without the city walls Outside also lie a number of suburbs, chiefly Indian on the south-west and west and European on the north, where are situated the European residential quarters, several excellent hotels and various extremely well-kept parks and gardens, the district being intersected with straight, wide, good-surfaced roads and forming a very pleasing contrast to the congestion of the city. It is in this neighbourhood, too, that the temporary quarters of the government of India are situated and Government House (Viceregal Lodge), the residence of the viceroy

## Native Crafts and Modern Trade

The arts and crafts of Delhi have been famed throughout India for hundreds of years, and under British rule its workmen have not lost their cunning, while their products have achieved a celebrity that is now world-wide. They comprise jewelry, silversmiths' work, brass and copper ware, ivory and wood carving, glazed pottery, muslin, shawls, silver embroidery and miniature painting.

Its advantageous situation as a grain market, a piece-goods distributing centre, and an important railway junction has attracted thither a good deal of European and outside Indian capital of late years, this has been accentuated by the choice of the city as the empire's capital, and it is now a prosperous manufacturing centre, the leading industries being those of flour milling and biscuit making, cotton spinning, weaving and ginning, sugar-cane pressing, iron and brass manufacture and printing

# Glories of Shah Jehan's Palace

The architectural glories of Delhi, renowned all the world over, he chiefly within the Fort—the once great Imperial Palace of Shah Jehan Built on a uniform plan and by the most magnificent of the royal builders in India it is on a most claborate wate, forming a parallelogram measuring a foco feet cast and west and 3,202 feet north and south exclusive of gateways. On all side at as surround d by a very noble will of red sandstone relieved at inter-

vals by towers surmounted by kiosks, and the principal entrance faces the Chandni Chauk Entering its deeply-recessed portal you find yourself in a vaulted hall, rising to two storeys and 375 feet long, having the effect of the nave of a gigantic Gothic cathedral and forming the noblest entrance known to belong to any existing palace

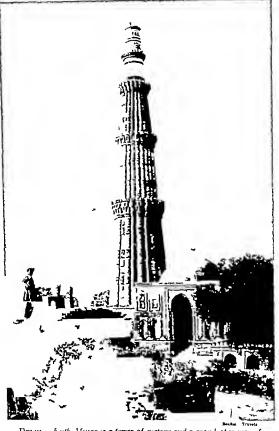
Facing this entrance is the Music Hall, the Naubat Khana Beyond it lies the great court of the Palace, in the centre of which stands the Diwan-i-'Am, or "Hall of Public Audience," and behind this a court containing the Rang Mahal, or the "Painted Chamber" North of this central range of buildings is the Diwan-i-Khas, or "Hall of Private Audience" The whole area of the palace is more than twice that of the Escurial, or of any palace in Europe Such was the scale of building in the time of Shah Jehan

## Fate of the Famous Peacock Throne

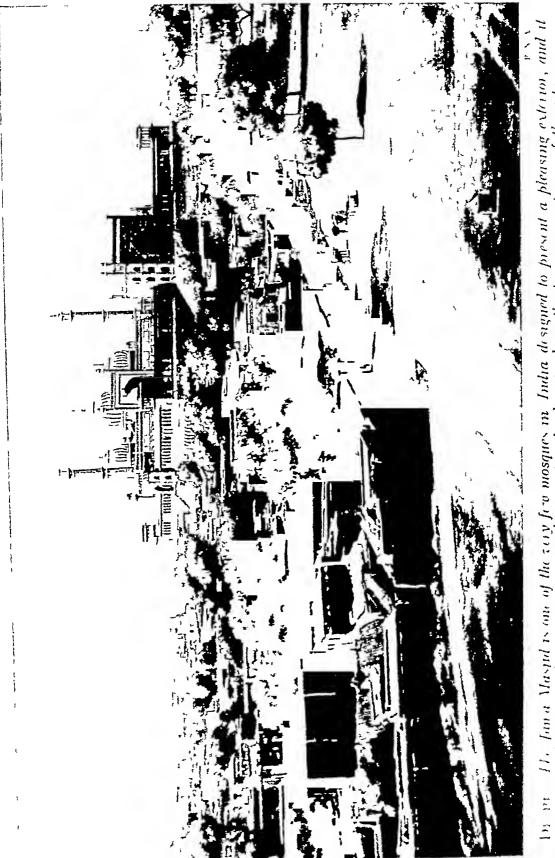
The Diwan-i-'Am is a splendid apartment, its most striking feature being its engrailed arches. It was here that the Great Mogul was accustomed to receive petitions in person. In it, in a recess in the back wall, formerly stood the world-famous Peacock Thronc—the most gorgeous example of its class that perhaps even the East could boast of

The throne, valued at £6,000,000, was carried from Delhi ii 1730 by Nadir Shah, after his capture of the city Rumonr says it exists to day in the treasure-house of the Shah of Persia, but Lord Curzon, who once eximited the thrones there, states that nothing remains of it, except, pathaps, some portions worked up in a modern Persian throne

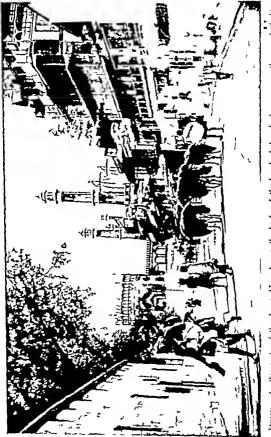
An exquisite gem of Oriental architecture is the Diward-Khas. It is maller than the Diward-Khas. It is maller than the Diward-Am and consists of a pavilion of white marble of pure the transports it is multimeparent. Over hanging the river at letting a rich of the intervention of the intervention of the intervention of the intervention of the intervention.

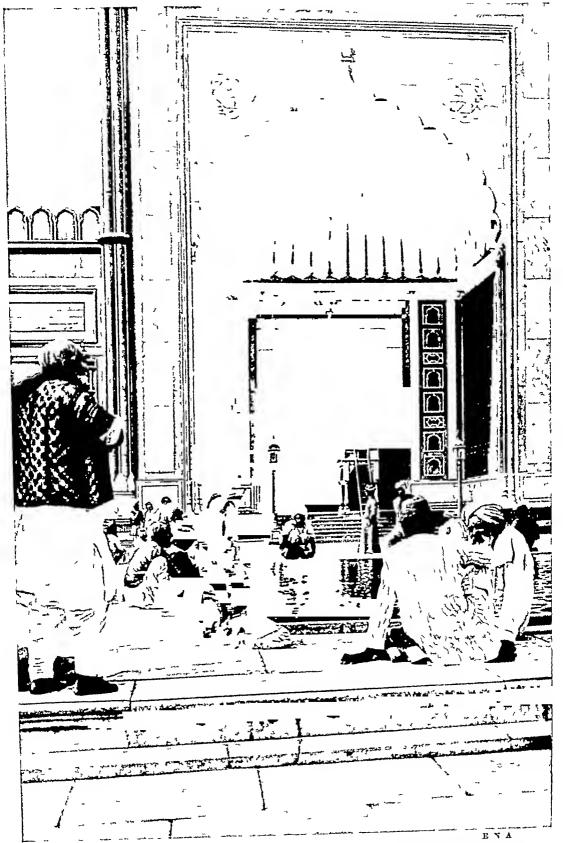


Drist Kill Minar is a lower of victory and a grand specinion of Makomedan work. Of red sandstone and marble it is 238 feel high



193 194 - 144 Jana Maspel is one of the very few mosques in India designed to present a pleasing exterior, and it vivel in pericify on an enermous basement, a landmark above the tree-grown spaces of the city

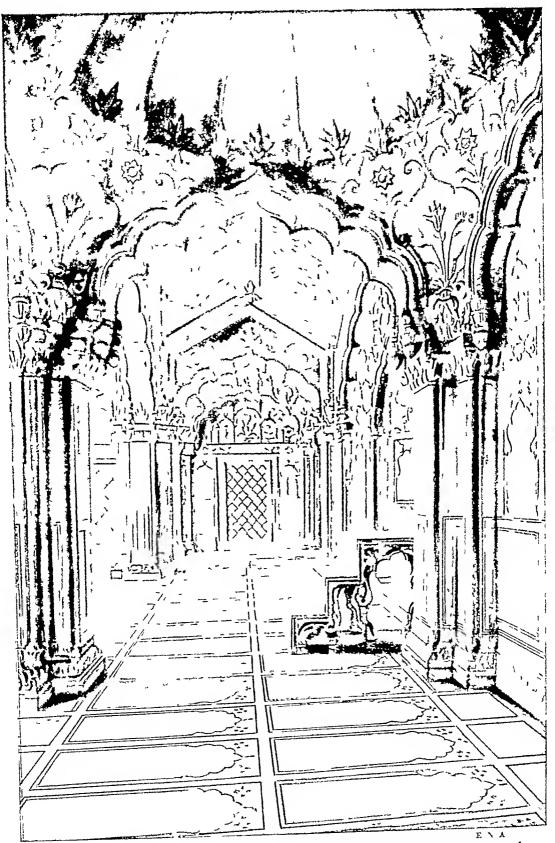




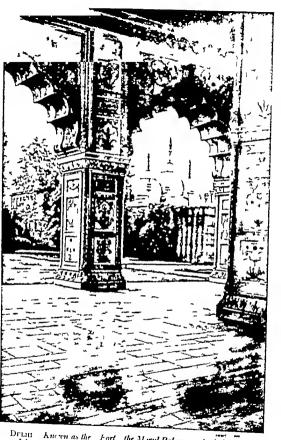
Delhi Through the Jama Masind gates the pilgrim enters a fine countyard, 325 feet square, with a marble basin in its midst



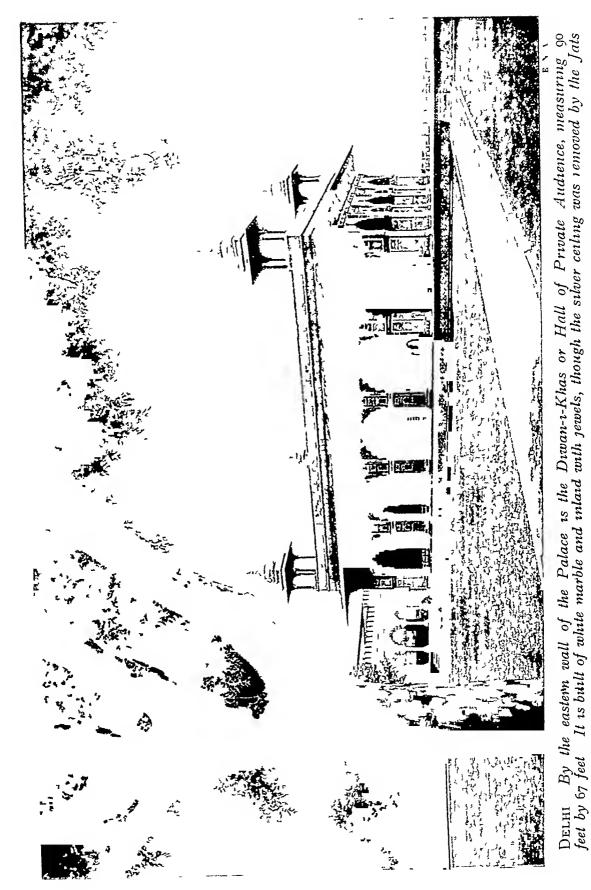
Dristi This gallery with its gorgeous arabesques is in the Rang Mahal or Painted Palace, once the residence of the Chief Sullana



Delhi Opposite the Royal Baths stands the Moti Masjid, or Pearl Mosque, built and 1659 by Aurungzebe, the great Mogul Emperor



OFLIII Known as the Fort the Migul Palace was built by Shah Jehan Here the Mots Masjid is seen from the Dit van i Khas 1619



platform a muld problem! upported on a doub, it well muld pillars. The inner face of the arches the pundul and the pillars or supporting them are covered with flowers and I stage of delicate design and during excution crusted in green sequential blue lapse bruth and punde I sphare. Around the roof of the half runs the lamous inscription. If a faraduse be on the face of the Larth its this—it is this."

The cut tambing architectural leature of the city is the great mosqu. known as the Jama Ma jil. It rises be 10s from a tocky emissione almost in the critic of the In lim quarter, was built in Schillighan, and its held to be one of the finest buildings of its kind in India. The front courtyard, 45s. It is square and urmounded by a cloider open on both ides, is passed with granute indial with martide and command a plendid with martide and command a plendid seew of the critice city.

### Ope of I has I linest Sheines

The mosque itself is an olsong in stage. It is self feet in length and it apparented by a magnificent flight of stone steps. Time dones of dizzlin, white midd instruction the roof two tall and graceful minutes stand at the corners in front. Thousands of Moslems can wishing mittee great courtyard and the scene on any great day of the Moslem calculated of this vait a semblage in prayer is deeply impressive.

Other buildings of note in Delhi are the Kalan Ma jid or Black Mosene" so called from its dark appearance gained from antiquity, since it dates from 13%) the reign of I moz Shah the Gollen Mosque of Roslianud hula, in which Nadir Shah seated on March 11 1730 gave the order for the mes acre of the inhalatants of IAlhi and the loot of the town the Pearl Mosque a tiny building added to the Palace by Aurungzebe as a private place of prayer the former British Residency now a government college the town-hall which contains a Durbar Hall a good collection of pictures a museum and a public D 20

library and the Church of S. James built at a cost of frageous by Colonel Skinner an officer of renown in the service of Old John Company.

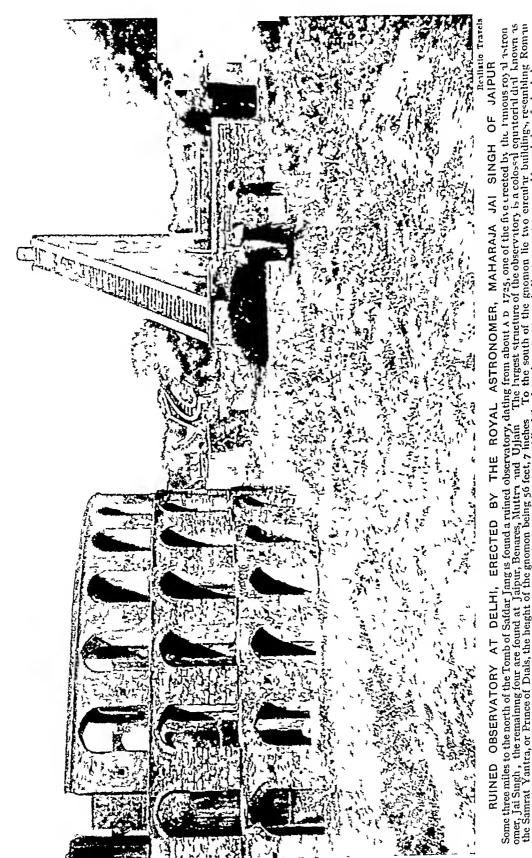
### Where Humayun ties Buried

Out id the cits wall to the south and south west lie scaft red many lauldings runned 3 rully mined or in a fur state of pre-ervation all connected with the hi tory of D-hi. Among these is the tomb of il. Imperor Humayum three miles and a half from the D-hi. Cite a noble building of reserols ired sand-tone infail with white marble and with a white marble dome set in a terracerd gard in a rounded by an embattled wall with towers and four extraced wall with towers and four extractory.

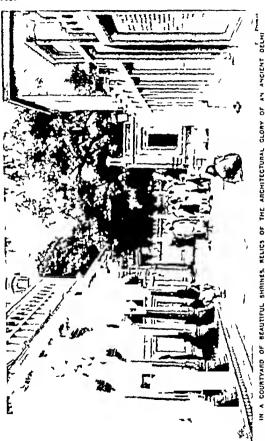
1 mil westward from Humavun's tender the lame of Near aid by a creat Med in int of the tim of thela t Klidic and the first Tuchlak emixing one of the principal places of Medern rescrence in all India. It is beautiful without and within it pectal features being a camen over the grave inlaid with mother-of-yeard and its civily is seed muld servens. Close in this shane each in it little enclosure ure moded by clerant lattice-work of white mubble are the graves of many members of the impertal family up to the time of the Mutini -I mixture Wilhomed Shah Prince Jehangir son of the great Akhar and Jahanara Begum the daughter of Shah Jelian

### R Ise of a Great Observatory

Of peculiar interest are the kadam Sharif and the Observatory of Jal Singh—the former a slab of stone said to bear the sacred footprint of Mahomet. It is contained in a basin of water on the surface of whileh float ros-cleaves and the hasin is built over the grave of Tatch khan son of Firex Shah who died in 1374. Of the observatory hullt in 1721 only the great equatorial dial crusts and two round buildings resembling small Roman amphitheatres with tiers of arches for measuring the ascendon and de lendon of the stars.



niches To the south of the gnomon lie two ercular buildings, resembling Roman All of the decaying structures indicate an astronomical knowledge of a high degree amphitheatres, used for measuring the ascension and declension of the stars 1623 DELHI



The history of modern Delhi from the time of Shah Jehan is a stirring onc Under Aurungzebe it reached the zenith of its prosperity, after his death the Sikhs and Marathas broke away from Mogul rule and even harassed the city

# The Passing of Mogul Rule

Sicked by the Afglian adventurer-king of Persia, Nadir Shah, then by the Afghan Ahmad Shali Durrani, it was twice devastated by civil war, and in 1771 the Mogul emperor Shah Alam became the puppet king of the Marathas, who maintained a Hindu garrison in the proud old Moslem capital The Maratha challenge of British rule resulted in their overthrow and the restoration of Shah Alam, when British troops entered Delli for the first time, and a British Resident was appointed Shah Alam was attacked by the Marathas again, however, when British troops helped to defend Dellii, and as it was clear that Mogul rule was over, the emperor was given a pension and Dellii passed under British rule

The British brought peace and prosperity to Delhi. Then after fifty-three years of quietude came the Indian Mutiny, the seizure of Delhi by the mutineers, the restoration of Mogul rule under Bahadur Shah, and the gallant recapture of the city by British and loyal Indian troops after a long and arduous siege. From that time on it has known peace and prosperity, though it has witnessed many stirring events of another, a peaceful, nature

## Ancient Preeminence Regained

At the great Delhi Durbar of 1911, when King George V and Queen Mary visited India and, amidst a scene of great splendour, were crowned Emperor and Empress of India in the noble city of Delhi, thus restoring it to its former proud title of "Imperial," the striking announcement was made that henceforth Delhi was to be India's capital

On account of its healthiness and sanitary advantages, a site was chosen a few miles south of the present Delhi and on the fringe of the tract once

occupied by the Delhis of the past The new Delin is to be a well-planned city of imposing buildings flanking broad, straight roads of regular design, for the greater part shaded with trees Its site is on fairly level ground, apart from a central ridge, dominated by a low hill on which stand the main official buildings and Government House, the latter being on the hill summit, of noble proportions, an old-world Mogul garden behind it and a spacious park beyond Before it are two magnificent statues of King George and Queen Mary, presented the one by Maharajah Scindhia, the other by the Maharajah of Gwalior

## Noble Appearance of New Delhi

Then appears a broad court 1,300 feet in length and 200 yards wide, laid out with grass and waterways and low trees and a great central column, the gift of the Maharajah of Jaipur This leads to another court of almost the same proportions, but flanked on either side by the secretariat buildings of the government, with a clear vista down the two courts to an imposing war memorial at the end of the ridge, a grand triumphal arch spanning this broad, central, and gradually sloping way similar to the Arc de Triomphe in Paris, but of simpler design, in honour of the gallant dead of India, Indian and European, who fell in the Great War

On spacious sites, in commanding positions, stand two cathedrals, one Protestant, the other Roman Catholic, a university, an Institute of Medical Research, ha museum and various colleges Flanking the city, north and south, are admirably designed parks

And so, by the side of the Delhis of the past and the Delhi of the present, the Delhi of the future is taking shape, in architectural style a blending of East and West, expressive of that cooperation between Briton and Indian which is the keynote of Indian administration to-day, and which may be destined to lead India to the attainment of her great ideal—self-government within the British Empire

### DLNMARK

# Man-made Home of Agriculture

## by J W Robertson Scott

Author of " \ 1 reo Farmer in a I ree Stat (Itoliand)

A POINTING hand is what the outline of Denmark looks his on the map and for two generations now Denmark liss shown the mad towards a higher rural civilization for the world. There is not a day in the year in which some foreigner it may be from Crat Britain or one of the countries of the Continent or it may be from a country as far way as Japan is not travelling up and down Denmark eagerly studying the lesson which ber rural folk have to teach country people in other land.

There is a peculiarly Danish kind of rural school which Denmark has established But this is only one of the reasons why rural Denmark is so much visited and written about by social reformers. Unfortunately a large part of what has appeared in print has been inaccurate. There is a reason beyond her rural civilization which makes Denmark specially interesting to British people. It is Inhabited by a race wisese blood runs in the velos of the British. Of old the Dance harried the shores of England.

#### Adventurous Spirit of the De es

Thousands of adventurers must have been lost in their compasses crossings of the North Sea but they poured on the shorts of Britain fa much bosts as to be able to set up as everybody knows one of her many dynasties. The Danish stamp on British place-names speech and physique can never be lost while there remain towns and villages all over the country ending in by houses and farms called holm and while there are born in the northern and eastern counties of Lngland particularly boys and girls whose like

eyes and flaxen livir proclaim their kin hip to the Dane

Brilain is also intensited in Denmarlbecause Denmark is the nearest of the Scandinavian countries and a marvel has been wrought in Scandinavia A century ago as an illustrious Dane pointed out Scandinavia was the fighting corner of Europe Now however unsettled and unfriendly parts of the Continent may be with one another no one dreams of fighting between Denmark and Norway or Sweden.

#### R lice of Da lab Empire

Other things than the racial connexion with the Danes and the fact that Den mark is the scene of one of the world's greatest plays make the Briton at home there It is northern it lies between the latitude of Darlington and Inverness and three-fifths of its population are klanders. Like Creat Britain it is a little country with colonies. If the dominions of Denmark no longer stretch into Scandinavia across the Sound and as they are said to have done of old time into Germans and Russia Denmark has still outposts in Iceland the Faroes and Greenland and until lately West Indian Islands, which were wisely disposed of to the United States.

The Reformation which cost so many lives in Great Britain and the Nether lands was bloodless in Denmark. That it was nome the less effective is shown by the fact that while there are morthan a million and a half Roman Catholics in Holland there are only a few thousands in Denmark. The Revolution in Denmark was equally peaceful and the seals of state are now in the hands of peasants sores.



ISLANDS AND MAINLAND OF AGRICULTURAL DENMARK

The cockpit of the north, few countries have been more war-wasted than Denmark The Danes have not forgotten Britain's share in their sufferings Before Copenhagen in 1801 Nelson fought one of his least glorious engagements. The mythical narrative which is reproduced in a well-known work of reference is no longer countenanced by historians. Six years later Britain appropriated the Danish fleet. There

is a Danish legend that an English captain sprang overboard rather than take part in this oppressive act. Twelve months later the country was invaded

It is not surprising that the close of the Napoleonic era left Denmark bankrupt Yet there was to follow, almost within a generation, the struggle, endured in Danish territory, with Prussia Then came the dogged, pitiful conflict of 1864, which Danish art so poignantly portrays. The southern provinces of Slessing and Holstein more than a third of the whole country were torn away. (North Slessing was restored in 1919). Physically and psychologically, it was almost as if Britain had lost Scotland had every where galling remindless of alien feet and butter memories for a lifetime of kin among the dain.

What the Danes had left of their country was not a land rich in natural resources. There is in Danmark no coal that counts and no other mineral The soil is not considered to be of the first quality. With regard to the climate the prevalent winds are from the west or south-west but the average temperature for the year resembles very much that of Scotland beyond Inv mess. There is a rainfall similar to that of the Eastern counties of England but an Fex actualities delegation found vegetation two or three weeks behind Last Anglaa," and had evidence that the winters were long

Denmark " they were inclined to

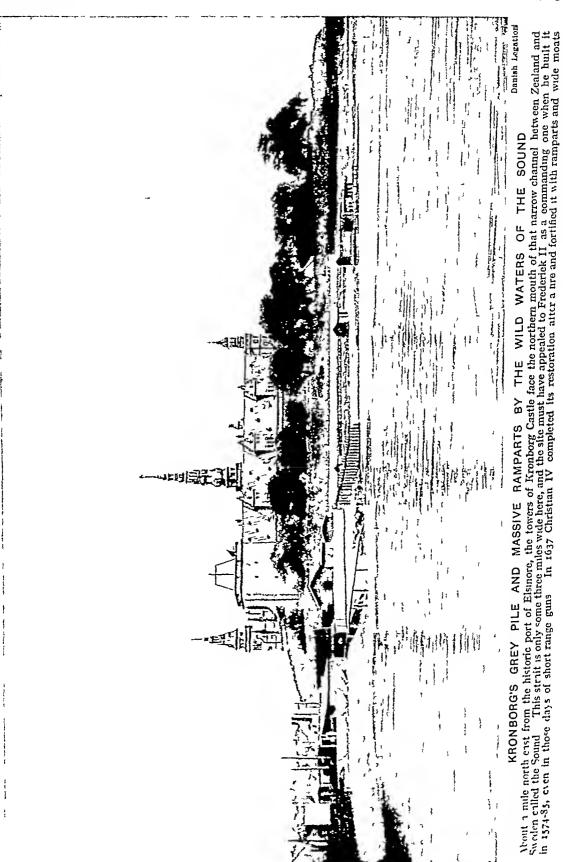
think "possesses few material advantages as far as agriculture is concerned Every visitor to Denmark feels that he is in a wind-swept country. What is called the highest hill is only 5/o feet above ce-level. It is named a little pathetically. Heaven's Vountain

Island breed a race of many fine qualities. But there are difficulties in the way of the development of a country with war debt a country of no great natural wealth a country a third of whose areas divided between 44 islands even the capital. C penhagen is so cut off from the mainland that a journey to it means embarkations on two team ferries the passee by one of which Is it an hour and a half.

And it is to be remembered that many generations after England had beheaded an inteachable king same ideals of civil liberty had made such limited progress in Denmark that the government was an antocracy. It is not so long ago either that what is now one of the most enlightened nations in the world submitted to a



FREDENSBORG CASTLE, AUTUMN RESIDENCE OF THE ROYAL FAMILY Constructed in the sent 1700 pt as momental of the peor. Then recently concluded a th Sweden the Set I recently concluded a the Sweden the Set I recently concluded to the Sweden the Set I recently concluded to the Sweden the Set I recently the sent people to the set of I redendorg to north start Set I recently the sent people to the set of Alexandra, once Queen of England, and or Danish princes are roots for the set of Alexandra, once Queen of England, and or Danish princes



intern In which all it हो असी सी THEF I foot tar 0 i a ro wa<sup>tt</sup>s air in t-òrrain tÌet Bit the tenters with als fall wine the cum cal the cuital VII or I torbet I from almid 12 ed mt d the form Land wish will then in aurtien at lafter de 1 t in the date flam of the lularetotle mi na in the

The area of Dermatke is nequien a flad the us ( Souther It and laters in three tle t and a quarter mallers Time are unler titre-संप्रशासक न म साधीयक 1 15 in Consideren and the emigration from D-mmuck t consul to al sit a Lith of the annual האווניים וו אבוניתו The promestory of Jut land which makes up w much of Denmark to tarrely heather cla langer lund, much d which has been determinedly

planted with trees and otherwise reclaimed. There is a granute idand of Bornholm away out in the Haltle which is all that remains of the Swedish territory in Jambh powersion.

The railways are a con iderable national asset. The total of teamers motor vessels and calling vessels is a little over a million tons. Demmark's exports to Britain almost entirely agricultural were in 1921 31 millions against imports of 34 millions. About half the people get their living by agriculture.

The population of Lugland and Wales is sixteen times greater than the population of Danmark but there are almost as many men women and children on the land in the little country as in the large one. How rural the country is



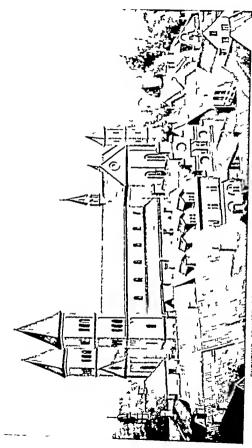
CORNER OF TONDERN'S QUART TOWN SQUARE ther jet later off to a free the reflected in the later to the content of the content of

the visitor realizes who travels to Denmail he her most important steam slim line. Of two of the largest bent one is called after a penneer of agricultural research the other after the chairman of the Dani h Aericultural Society. The civil list and the votes of the Foreign Office for the Department of Public Works and for both Houses of Larliament are together just about the total of the vote for the Department of Agriculture There are Danish manufactures largely of requires for the man on the land in and out of Denmark but the exports which are not agricultural products are not more than to per cent of the total

There is in Denmark what Björnsen called "the most enlightened persantry in the world. We quote A hold



The proportion of persont holdings and estates has always been large in Denmark, and there has been a considerable amount of legislation to prevent these holdings changing hands from tenant to landlord. The land is worked on well thought out lines, and the increasing figures of exported dairy products testify to



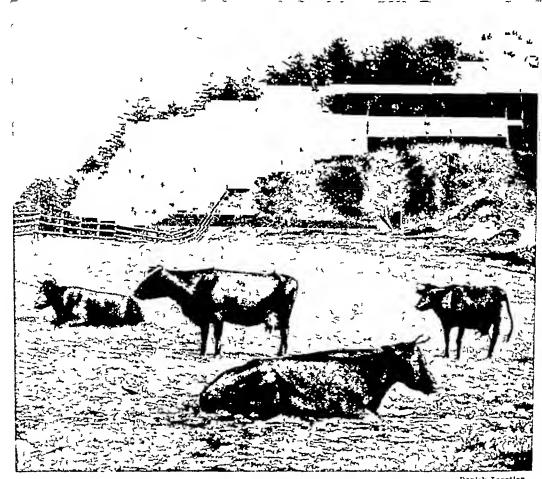
DENMARK 1632

peasantry, its country's pride," but when we do so, have we not an impression of something a little bovine and forlorn? The Danish peasants have good coats on their backs and money in their pockets, they have a nice vehicle or car to ride in, and, as a rule, the freehold of their holdings members of a recent ministry were peasants In the Cabinet of nine which succeeded it there were three peasants, and a fourth member, the prime minister, came from a peasant family Denmark is a peasant state Before the Great War this state (which has a Labour government) sent us nine out of every ten pounds of butter and bacon it made, and nine out of every ten eggs

its hens laid In 1922 the export of butter alone to Great Britain was valued at nearly 14 millions sterling

Denmark stands where she does to-day because of a wise system of land tenure, because of education and because of cooperation. A landless proletariat cannot by means of education be transformed into an active and free people. A people with such stuff in them as in the Danes must inevitably, when well settled on the land, become enlightened. The beginnings of a good land system in Denmark were laid in 1788. Conipulsory education began as long ago as 1814.

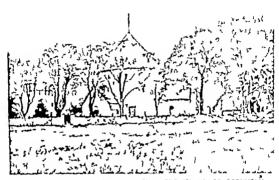
What one finds in Denmark is a country in which the area of peasant



Danish Legation

SYMBOLS OF DENMARK'S GREAT DAIRY-FARMING INDUSTRY

Danish farmers have made their equatry preeminently an exporter of dairy products. A great part of the agriculture is devoted entirely to providing food for stock instead of human beings, and in this way they have survived depressions in the price of cereals that have injured the farming communities of other countries. Also the farm labourer is encouraged to stay on the land



TWELFTH CENTURY CHURCH ON THE LONE ISLAND OF BORNHOLM Bon when, or of the few roles of the Dashb empore off I Describt in 1981 4 were 270 february miles 1 of I Lond and 18 1 toward 1 claim of 1 longed to 1 long

farms in retates.

land has been larg for centuries. Whether this peasant land was let to the peasants or was owned by the peasants it was equally peasant hand the allenation of which was forbidden by custom and law. The Danish kings coped with the power of the privileged classes and the clergy by relying on peasant sympaths and tases.

As far back as the fourteenth century It was made illegal to buy land from the peasant freeholder. Four hundred years need it became the law that land should be let for the whole lifetime of the peasant. Although there was an ingoing to pay on taking a holding the rent remained the same for generations. A century later it was enacted that the widow of a tenant should keep possession of her husbands farm whether she married or not. This is still the Danish law A further custom that the son should have a claim to rent his parents holding was usually obeyed From the same time dates the law forhelding the merging of peasant

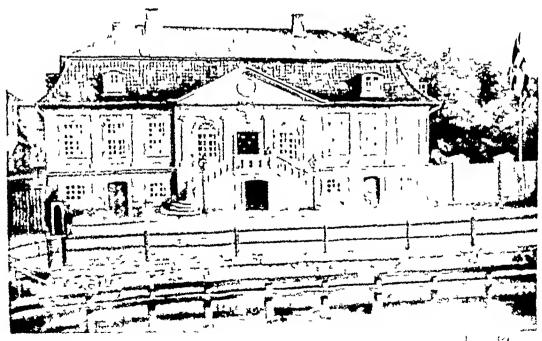
During the period when Lingli h common land was being enclosed by the wealth. Danish common land was being apportioned among the peasants. At the time that kohert Burns peasant and poet at his wits end for money was thinking of emigrating the Danish state was offering peasants loans at 2 per cent. In order that they might be able to buy their farms. It became the law that a peasant could not be exected without the decision of a magistrate Urecked as the country was by the Vapoleonic wars It possessed an element of stability in the fact that a quarter of the peasants owned the land they cultivated.

A series of acts has encouraged large landowners to sell land to peasants. It has long been the law that a man buying an additional holding must have a farmbouse and a family on this off farm. Farmers have been fixed for DENMARK 1634



STATUE OF HANS ANDERSEN IN OLD ODENSE

Odense is the capital of Funen island and near the river of that name. It has an eleventh century cathedral and an excellent system of electrical street lighting, manufactures chemicals and cloth, and was the birthplace of Hans Andersen. The house in which this event took place is now a nuiscum and the proud inhabitants of the city have set up an effigy of this pioneer in fairyland.



OLD CU TONS HOUS OF FAMOUS ELSINGIE

living on one farm with their milking cattle and using another to run young stock on A law of 1509 set asule a um equal to the kings civil list to provide loans for agricultural labourers who wanted to obtain holdings.

And the result? Danish farm—we may say roughly that they are about two-third the 11 of British farms an mainly freehold. Not more than a thirteenth of the cultivated area of the country is composed of large estates.

country depends less on its natural resources than on the quality of the labour applied to its devel pment and on the intelligence that directs the labour." The head of the oldest apricultural exprenential station in the world. Rothimsted in England his called the history of Dain hagmentur from the sixtes entrancing. Up to the sixtes Daiish and British agriculture had moved somewhat on similar lines. The Daiish fairner and the



PEACE AND CHARM IN A CORNER OF RURAL FAABORG

A peculiarity of Demands is the fact that it island are almost of more importance than it main land. Corpolation the capital is on as these facilities of the pertuit of the post island in post of size it.

Funen One of longs most pictureque tower in 1 borg, in corner of which are those old into the pertuit of the pertu

There are not more than 900 holdings of more than 350 acres. If we reckon imall holdings as areas up to about 25 acres—a common British notion of a small holding is three acres and a cow—then a seventh of the cultivated area is small holdings. Taking the total number of agricultural holdings 90 per cent is freehold compared to the British 13 per cent.

A very distinguished historian has written that the prosperity of a Britsh farmer had combined corn production and live-stock. But the Brittleh farmer then decided to bank on meat production. The Dane went in for dairying. Events have shown says Sir John Russell. "that It was emphatically the right cloice.

Darry farming produces much more food pro rate than meet production and it allows full scope for-indeed it necessitates—those cooperative methods of business and production DENMARK 1636

which have since dominated Danish agriculture "The wisdom of the Danish choice,' he goes on, 'was evident in the 'cighties and 'nineties when Europe was flooded with cheap agricultural produce from the virgin countries of the New World and Aus-Wheat fell to nearly half the English agriculture suffered a price terrible set-back and did not begin to recover until about 1896 Danish agriculture, on the other hand, was able to make headway all the time improvement in dairying reacted on the export of butter arable farming rose from 10,000 tons per annum in the late 'seventies to 100,000 tons before the Great War, and the yield of wheat rose from 30 9 to 36 5 bushels per acre Thus the Danish system has proved to be eminently suitable for the production of wheat from the land, and herein lies the great importance of its lesson for us "

## Effects of Falling Wheat Prices

The fall in the price of corn, due to cheap production abroad, by which the working classes of Great Britain, Holland and Denmark—the three countries which have no duties on agricultural produce—have so much benefited was differently met by the British and the Danish farmer The British farmer tried to balance accounts by savıng labour Because fewer hands are needed to mind cattle than to grow crops, he proceeded to devote areas of ploughed land to grass On his grass he tried to carry as many cattle and sheep as possible On his remaining arable land he went on steadily growing corne

## How Danish Farmers Met the Crisis

The Dane did just the opposite He kept all the labour he could on his land He ploughed up grass and got rid of sheep He was minded to market, not a raw material like corn, but finished articles He would make his farm a factory in which to produce milk for butter and pigs for bacon. If he grew corn it should be fed at first cost to his stock. He would also grow for lus

cattle and pigs large quantities of roots and green fodder. This provender he would supplement by buying foreign corn, foreign bran and foreign cake. And because he wanted these foreign products at the lowest possible price, he took care that there should be no duties on them at his ports.

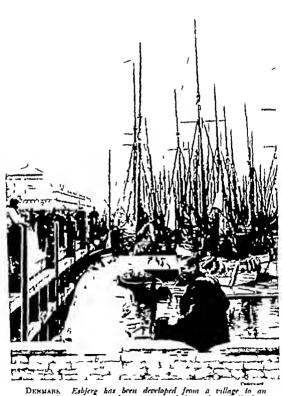
To-day the problem for the Danish farmer is not at all whether it pays to grow corn for sale at present prices Such an inquiry seems to him the mark of an unprogressive farming outlook He is intent, not on selling off his crops, but on feeding them as fast as he can to his stock and in buying in as much Denmark, from more food as he can being a grain exporter, has become a grain importer The corn and other produce which she imports are turned into butter and bacon and eggs, which are exported at prices which could never have been got for the raw material With regard to the amount of labour kept on the land, there is not only what Denmark can produce herself, but an annual importation of several thousand Polish and Galician farm workers

## Success of Cooperative Enterprise

'igain, six-sevenths of the bacon made in Denmark come from cooperative factories. Denmark is a network of cooperative societies. A Danish farmer thinks nothing of belonging to a dozen of them on the sound one-society-one-job principle. The meetings a Danish farmer has to attend, for which he is often chaffed, give him self-confidence, a knowledge of business, a sense of responsibility and the habit of rendering public service.

The remarkable thing about the farmers' cooperative enterprises is that the vast capital involved is not the farmers'. It has been readily advanced by the banks on the joint responsibility of the members. This is the great secret of agricultural cooperation.

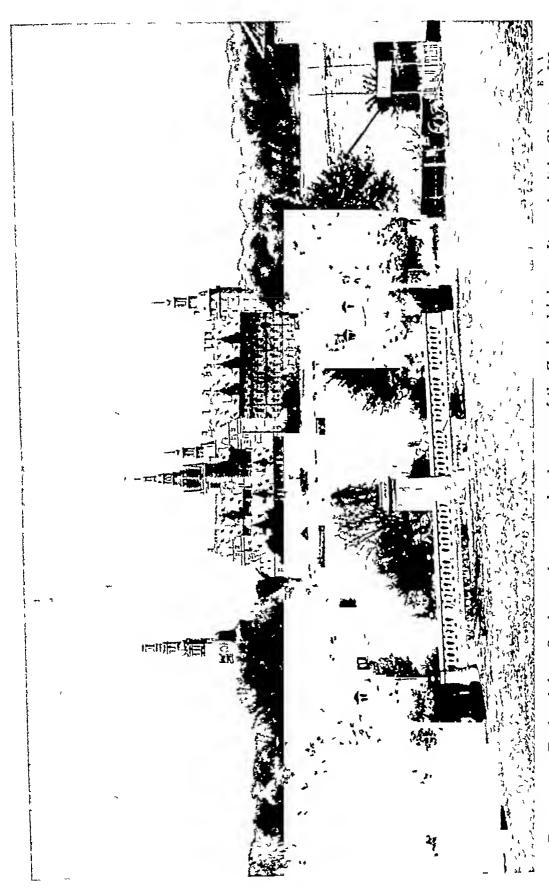
The existence of the butter factories or creameries, which give the farmer back his milk after the cream has been separated fro n it, makes possible the



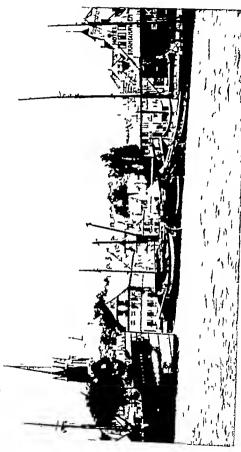
DENMARK Esbjerg has been developed from a village to an enterprising scaport mainly on account of the trade with Fugland

1637

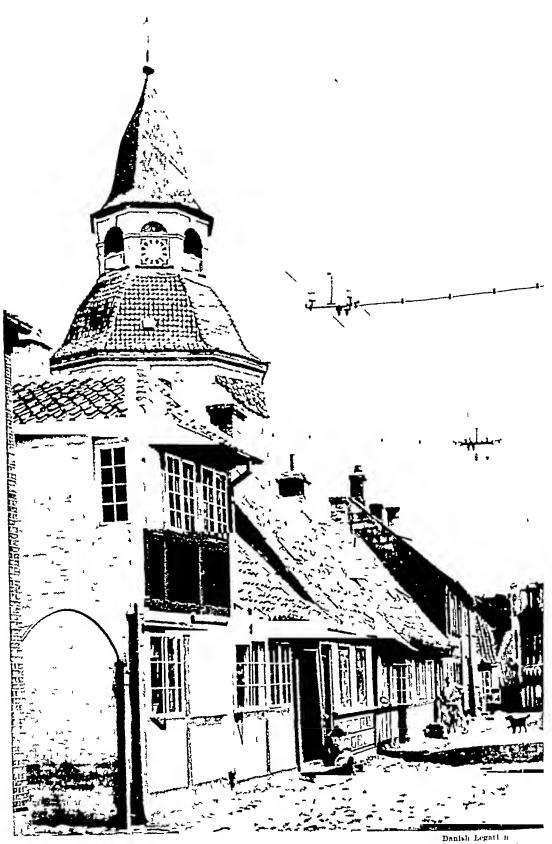
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in the seventeenth century as a royal palace and is now used as a national historical museum Denmark Fredericksborg Castle stands on an island in one of the Zealand lakes



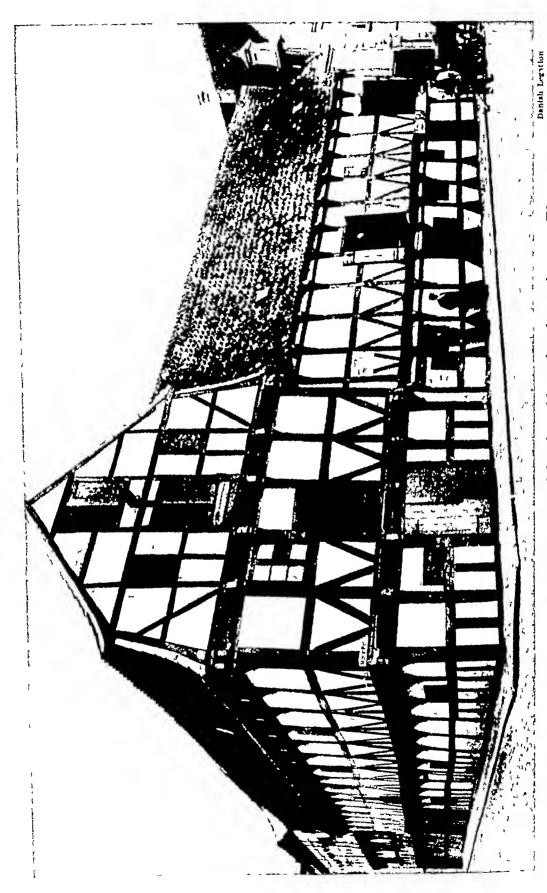
NARR Sonderburg on Alsen island in north Stervy was annexed by Cermans in the war of incidentally burnt but restored in 1920. If has a fine harbour and prospers in shipping and DENMARK



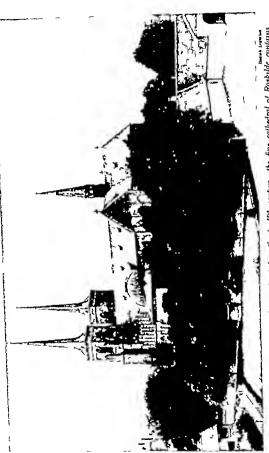
NMARK This is the belfry of Faaborg, a seaport on the fjord of that name on the south-western shores of the isle of Funen DENMARK 1640



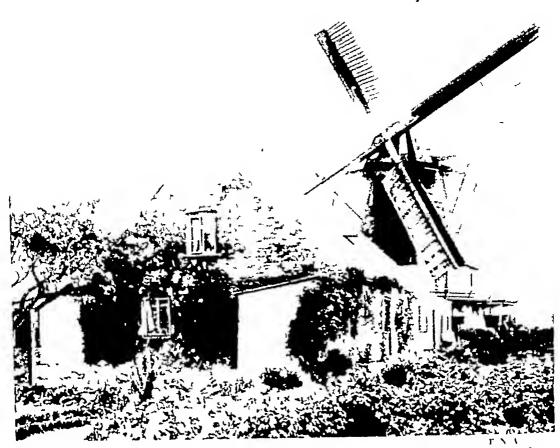
DENMARK This quaint house on Moen is a hunting box. It is recorded that the island was as late as 1100 three separate islets.



DENMARK Morn'ps Plads at Aalborg is beautified by this old timbered warehouse. The port is on Li



DENMARK FOUNDED IN 1074 and reconstructed in the tracific century. the five calledral of Roskilde contains the dust of many Danish kings. The form is built on a fjord tracity miles from Copenhagen.



String, especially along the west coast, resembles its neighbour Holland with its low-lying ground drained by means of dykes and windmills



DENMARK The rich marshlands of west Slesvig produce fine crops, and mechanical threshers denote the up-to-date agricultural methods

1644

maximent that rong a termsol in the full in the royer tax arrange per and calves Havin to be kill fainless grid in the roles. Similarly no butter may be expected from Damisk which it not made from parteened cream. I win but of liver which is eq. if the arrange in tang. The lat has proved to the role of the properties of the provided of the theory of the price of the provided of the price of t

It was I was of their each no prioral education that the Danish practite are juneal ils bi rel to availthem beneficial realization in and to develop a peratron eve ll'int general education le di-1 set t the famous rural "1 : 1 d (high select) which saunt them has that they teach tentung out of which a love may be mad and that they bined wall it is penals at the end I then studies to the tears. There from the frequency of the first of the state I which young men and women I el in winter convers themselves with luter mule i in focum countres art the lives of great men of all times and physical exercise

#### Literack ad Cree Land

Rewritin, to arricultural conditions only a seventh of the cultivated area is under jermanent pras. The number of live-tock kept is very large. In the first year of the Creat War there were 3600,000 animals—2,500 one cattle 597,000 lowls on nine million acres. Certals covered in 191–2 800 one acres gravs and green crops 1,900,000 acres tools 1,000 one acres other crops 1,900,000 acres and fallow 341,000 acres and fallow 341,000 acres.

In the period 1876-1880 Denmark had an import surplus (that Is imports less exports) of £2,023,000 worth of corn flour meat feeding stuffs and seed. In the period 1910-1913 she had a surplus import of as much as £9,568,000 while her surplus

esport of animal proloce hill risen from friggeon to firstness worth There could not be a clare preture of the chance in arricultural practic which has taken place. It may be added that the export of futter in creased more than sixten times. If it on and lain more than sixten times are largest all ut right times between the 1851 by and the 1001 5 for 1.

#### Increes & Yell from the Land

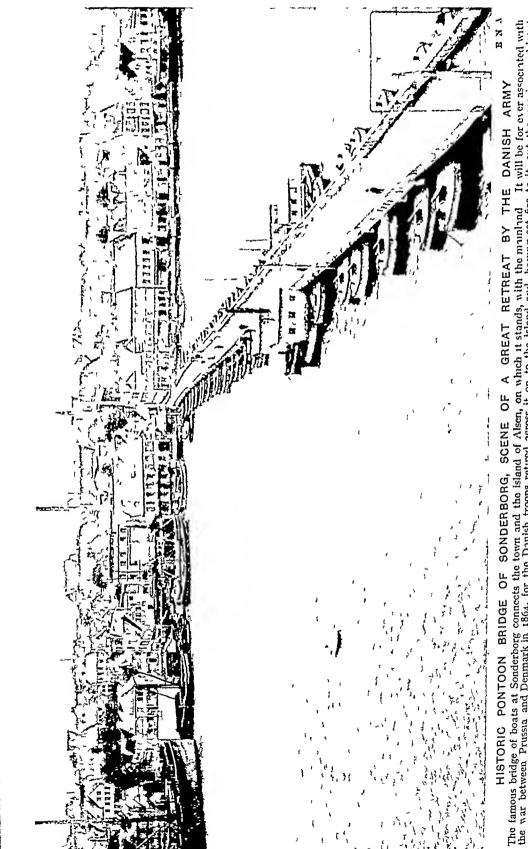
Il average wheat crop i live in a 5 sq. and 1009 if in 4 i 4 ii. 1 sde collin row of bush I agus I said in I repland and Waler in tort if 21 leads that it row for limit of the said that it row for limit of lead to be 4 it may be arrowed and in it. If which had been it if were 15 and mich made that for the said in a said are. But dy the total produce of crops have rested in twenty year to 25 per cent.

The number of cattle was dished at the number of twine was increased for time. The yield of latter per consistency of them 116 pound per consistency in 1885 in the pounds in 1785 the yield of milk from 510 raill min in 1975 of 10551 gailous in 1911 to 1 or all Dain Is larnes which sent in report to the loyal Dainh Agricultural Society there was an average net profit of 8.6 per cent in 1920-71 and of 12.7 is cent in 1921 2.

#### High W & Steaderd | Work re

The notion that Dani h agriculture surceed on a la is of poorly pald labour is inaccurate. The wages of labourers in 10-1 averaged 2 293 kroner a year there being about 24 kroner to the pound. Nor is the land skimped for labour. On a typical farm of 100 kers the labour was three men and a married stockman and his wife one mald to belp with the milking, and two labourers for six months.

It is symptomatic of the social condition of rural Denmark that so much of it is electrically lighted. In addition to the service of the lag central



The famous bridge of boats at Sonderborg connects the town and the island of Alsen, on which it stands, with the minimizative war between Prussa and Denmark in 1864, for the Dinish troops retired recess it on to the island and, having set fit swing out into the channel. When restored the old construction was adhered to, but Sonderborg remained in German hinds.



power stations there are 250 cooperative electricity societies. Many farms are not only lighted by electricity but are having their threshing and grinding done by electricity "The Danes seem averse to innovation," wrote Mary Wollstonecraft, which only shows how a nation may be misjudged

In dwelling on the agricultural advance a word should be spared for the advance in forestry Nearly 3,000 miles of heath land, marshes, etc., have been transformed into forest or farm-land Sixty years ago there were 200 square miles of forest in Julland, now there are as many as 700

Those who visit the Danish farmers are impressed by their hospitality, by the rows of books and pictures in their houses, and by the number of papers to which they subscribe There is a general air of well being and of intelligence throughout the country Demark is intensely democratic

"The brothers of Englishmen, the Danes," was Nelson's phrase But there are all sorts of odd differences for example, and at random, the incessant coffee drinking, parsons in their ruffs, the family doctors with their annual salaries, the more northern architecture -one feels vaguely that one is in Scandinavia and that Russia is not far away One notices such things as Hamlet without the aspirate, the storks, the habit of singing, and the plates of "smörrebröd" (sandwiches of a dozen sorts) available at every inn and restaurant After dinner one still finds the guests shaking hands with one another and their hosts, and saving "Velbekomme" ("May it agree with you"), or "Tak for mad" ("Thank you for food ")

Every visitor to Denmark will want to go to Elsmore (Helsingör)—he can be accommodated with a sight of the tomb of Hamlet, to Roskilde, the burial-place of the Danish kings, to the castles of Frederiksborg and Kronborg, and to the open-air museum at Lyngby, where so much of old-time rural Denmark is preserved with remarkable skill There is to be found there a farm-house from Slesvig (from which region many of the English people came), which was originally built nearly three centuries ago It helps one to realize how our forefathers lived

In his journeys by boat and train the stranger can hardly fail to see something of the moors and fjords as well as the wonderful meadows and cultivated fields of Denmark But it is well worth while to break the journey at Esbjerg, the usual port of entry, and make a special tour, instead of hurrying on with the crowd by night express to Copen-Jutland—the resemblance between Jutlanders and Yorkshire folk has often been stressed—has not only old-world Fano and Ribe to show, and Askov with one of the most famous people's high schools, and the fjord towns out east, but the rume stones at Yelling, in honour of the great-grandparents of Canute and bearing on it a primitive picture of Christ

#### DENMARK GEOGRAPHICAL SUMMARY

Natural Division Peninsular and insular portion of the Great European plain (Cf South Sweden, North Germany, Holland) A lowland, a gentle surface-swelling across the natural connexion between the North and Baltic Seas

Climate and Vegetation Naturally heath and moorland (Cf North Germany) much has been afforested As dry as East Anglia, as cold in winter as the Scottish uplands, and as bleak and wind-swept In summer as warm as Southern England, with longer days due to its situation in a higher latitude

Resources and Products Limited in resources to the produce of the soil Denmark's chief products are manufactured farm produce, chiefly butter and bacon The people outside Copenhagen are a rural folk, most of whom occupy small holdings, for the peasant has more definite rights to a share in the land than elsewhere in the world By dint of coopera tion they have become a dairying people par excellence "

Outlook Denmark will prosper as a provider of provisions to the industrial areas of Western Europe

### DOBRUJA

# Drab Land of Desolation and Promise

## by Horence Larmborough, rucs

Triveller I tru t a f Anthority in Modern I rope

Tiff Debrupt the soul at in portion f kinning a the let I rill be fland in thing in a norther hereof in from the Latern B Blan rarge in Bol and it be I tract of the Dinule Banker in the west by the grat witerway of the Dinule it B on the earlier health on titus a complex geographical emity ince nator I provided on all les in liquidal and cleatly defined. I sincliquidate mesintain our treether and contains.

In the south heracyer, the recognized boundars which established the Delirus as a political unit is not a natural but a conventional me and runs from th Danishe some for males west of Turtucaux to the Black Sea some ten miles north of the Bul, arran port of Varna conventional frontier was fixed in accord ance with the term of the Triaty of Bulanest igned in 1913 on the conclusion of the second Balkan War Proof to that time the boundars, line had been drawn from the Danube east of Silistria to the Black Sea a few miles south of Mangalia that is to say at an average distance of about thirty miles north of the present frontier

#### Broad Ki er-bounded Oblong

In shape this broad passage is an irregular obling or as it has been humorously described "an oblong with a wast! I or from Turtucata the Dambe flows persistently in an easterly direction as though impatient to reach the sea, then near Cernavoda—where a railway stretches like a gnille from their to coast across a well marked natural depression—less than forty miles distant from the slightly indented shore its saddenly turns westwards and, with

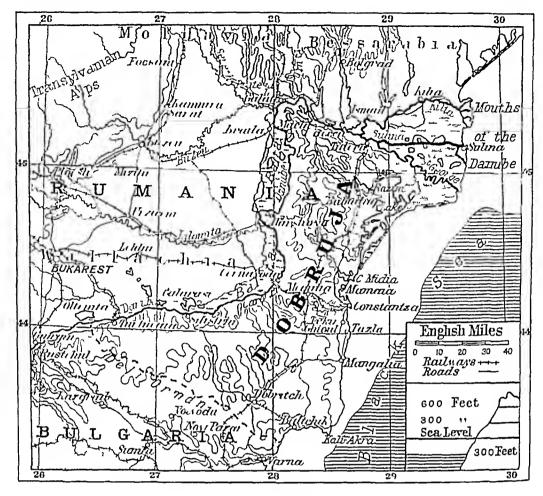
the exception of a lot of horsestoe bend nor flarebox continues it capit is any covarlet method in allowith with a frong curve at Calate it wise ain to the each plit into sexical clinic and wind moved to the sea-

With the exception of a well marked prinsion at the mouth of the Danube the coardine or elicen boundary. I wanted on the whole fairly trught and mount mou. I but much broken in the north where the way nectates far into the land Tashioning for itself creeks and become of some con-details are.

#### M raky Delt of the D be

The delta con titues the northern Her are the three mouth Kilia Sulina and St. George pread out in fan fi luon over a wide extrinse of alluval mud only mall portions of which are ufficiently table to furnish ground witable for man liabilitation and such cultivation as exists is found only in the vicinity of the few scattered villages. The delta covers an area of about 1,000 square miles and along the coast between the mouth of Kilia and that of St. George, measures forty miles, Dunes of varying height have established themselves round the Kina mouth elsewhere throughout the whole delt the land is low and marshy being only two feet above sea-level about the mouth of Sulina that arm of the Danub, which bisects the delta while in some parts It is actually below sea level.

I resh-water lakes fed by these branching mouths of the great river are numerous but made indistinguishable from the swamps by periodical floods to which the entire area is liable. It is estimated, nevertheless that the delta gains annually from ten to fifteen feet



DOBRUJA, LOW HOGSBACK BETWEEN DANUBE AND SEA

towards the sea, and is slowly but surely becoming more and more consolidated

The natural boundary on the south may be said to be formed by the Deli Orman, or "Wild Wood"—a region of bleak and barren highlands stretching across north-east Bulgaria, almost parallel to the Rustchuk-Varna railroad Their highest point, 1,624 feet, is near Voivoda, a village situated some nine miles north-west of Novi Pazai

From the foothulls of this Balkan range, north of Varna, a plain breaks away in a series of gentle undulations with a slight fall towards the Danube delta. This plain, known as the Dobruja, may be divided roughly into four regions. There is first the plateau, including much steppe-land found in the south and centre, then, the rugged hilly country of the north-west,

next, the marsh-lands where broad lagoons monopolise large tracts in the east, and last, the delta of the Danube with its numerous waterways, lakes and broad strips of reed and alder-beds, as well as wide mud-flats and extensive alluvial deposits

The most fertile district is found on the plateau of the south Here corn is produced in considerable quantities and agriculture forms the main occii The unpation of the inhabitants dulations of this district, stretching roughly from the Deli Orman in a northeasterly direction towards Megidia, are not strongly accentuated, and run from about 800 feet to below 500 Megidia itself, though part of the plateau, belongs to a less fertile district and may be considered as actual steppe-land covered with a calcareous loam Beyond, the

country continues its general character of a bare plateau with little or no variety of relief until the broken hilly district of the north-west is reached. This di trict extending from Bahadag or "Old Mother towards Macin consists of well-wooded heights some of them rising to 1 000 feet and more

The Dobruja in Rumanian Dobrogea" in Bulgarian Dobritch " came first into prominence in 1979 at the close of the Russo-Turkish War when Russia annexed the fertile Bessarabia a possession of Rumania and then made a pretence of compensating her indignant ally by a signing to her the delta of the Danube together with the sandy belt below it extending to the Bulgarian frontier But long before the nineteenth century the Dobruja had played a part though mainly a passive one in the annals of Balkan history

From the earliest times indeed this had been a debatable land. Northern races intent on despoiling Constanti nople and the wealthy cities of the eastern provinces of the Roman Empare came streaming across its barren plains. Goths Slavs Tartars and yet other in vaders used it as a high road to fortune -not always successfully

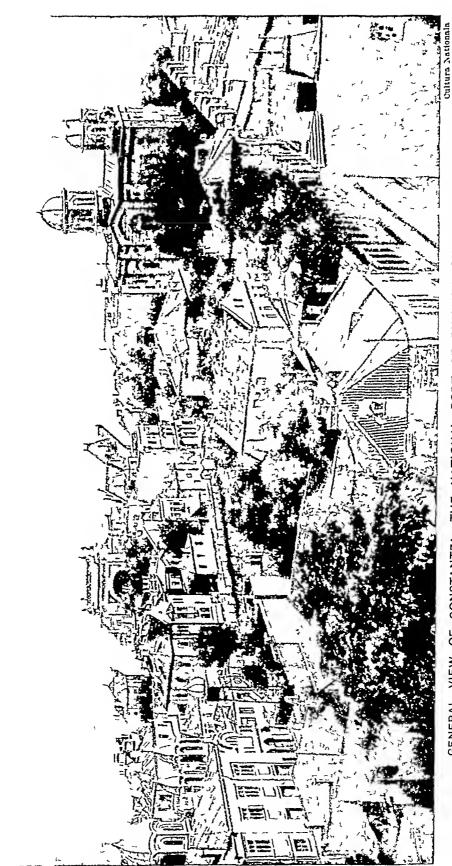
in Trajan's Wall there exists to this day a mute reminder of at least one stupen dous obstacle which these heathen hordes had to encounter The Lm peror Trajan was quick to r cognize the strategic importance of the trans-Danubian territory of Dacia which he had subjugated and about AD 106 la rused between Constantra on the Black Sea and the Danube a great definite rampart mad up of tripl barriers deep entrenchments ten to twenty feet in width with fortified camps, of which fragment till remain sufficient to bear witness to the in genuity and immitable military skill of the great Roman warrior

Southwards too over this lone bare land the Russian pa sed in 181 to fight for their Bulgarian kinsmen against the Turk and her in 1010 swammed the allied forces of Germany and Bulgaria under Mackensen-an inva ion that rsulted in the evacuation of the Dobruja by the Rumanians

The Dobruja has a singularly varied fauna and flora. The wolf and the wild bear exist in some districts also the lyny wild ox and deer. The fox wild cat budger hedgehog and polecat are common especially in the plains and



PEARL OF THE BLACK BEA ame Constantia, formerly Constantiana, is said to be derived from Constantine the se present aumo constantante, tompreny commandante, se seat to se derivat nom commandante tent, under valore right for sea solved much prosperity. Under the Turks, however its fortunes set, under valore right for the seat solved with some 5,000 misbitants when the body seat mesoned to Rumenia in 578. Giver their Constraints has made for constraints progress



Constantza lies on the Black Sea, 140 miles east of Bukarest by rail Despite its modern appearance, the town has many early historical associations, the statue of Oyid in the square brings to mind the antiquity of the site as a town, and fragments of the Great Wall of Trajan, at the scaward end of which Constantza lies, still stand to bear witness to its strategical importance. The clean and attractive streets are flanked by many fine buildings, including mosques and churches, while among modern structures the new Casino—lis façade is seen to the left of the central background—proves a great attraction to the numerous visitors BLACK THE z RUMANIA OF PORT THE NATIONAL CONSTANTZA,

here too are found the most character iste forms of bird life, such as the little and great bustard, partindge quail and the calandra. In the higher forested regions the eagle and the vulture have their habitat but feathered fowl are most abundant in the swamp-lands of the Danube valley where wild duck and goose stork and heron pelican coot ployer sandpiper kingdisher and

The Danube teems with fish including salmon sturgeon pike and many other kinds. Several peasant communities are exclusively engaged in the fisheries which prove fairly lucrative. Lurge quantities of fish are caught during the periods of flood and in the year 1907 when the river rose nearly 90 feet it is recorded that over thirteen million pounds were caught in the delta



GIANT GRAIN ELEVATORS IN THE DOBRUJA'S FAMOUS ICE FREE PORT Sees Constants, Romania only port of emportance on the Black Sea, was haited with Bulkared, the capital of the inaption, by direct rule, y crossing the Danabe the town propernt have present the analysis processed. Amneous grain sets tore and warehouses, petroleum tanks and reference have been established on the wharfs, for the treat trade of grain and petroleum a securities.

swallow may be enumerated among an astonishing variety

In the marshes of the delta the chief enemy of animate existence is the water which swells suddenly and sweeps over the lowlands swallowing up everything in its course. Safe from man's craft and cunning, animal life is prolific in these forsaken regions but year by year the treacherous floods exact their toll and many creatures perish while such as do escape - a motley collection of fur and feather-eke out a desperate existence on floating islands of plaur or marsh weeds, so thickly matted and intertwined as to furnish a secure footing for both man and beast or on the spread ing branches of the numberless willow trees, until the fury of the waters has at last shated

The flora of the central Dobruja steppe is not unlike that of the Walla chian plam, Few trees are seen the conditions are too adverse for their growth-frequent storms of dust in summer glacial blasts in winter and the scarcity of rain and of running water Farther north however the hilly tableland of Babadag, woods in which oak and beech predominate are found in plenty. In the south vegetation is rich and varied though streams are rare but subterranean water is not lacking and wells abound. Along the course of the Danube the monotonous steppe-land again prevails reeds and thick grasses grow to a great height and willows are so dense that the outline of the landscape is often completely hidden from view



OF TULCEA ON THE DANUBE, ONE

Northwards in and about the deltathe floral recome more varied to Thedwreds, grases and funted hirdflourish abundantly. In the late prinand early unmer mentils the moshes present one vast exprises of water laid the late unmer first the waters rajultreceding and verdont list visc and richpatches ellandern tige from the brewenpread lives his with grases and flowers of bullant of rung, an almest The New Distrupt the part ceded to humana by Bulgaria in 1913, is the most pin luctive district in spite of some searcity of water. In the vicinity of Constantial cultivation has pread over a consideral learnable without important results while the waterless teppe below the northern murbles is given over mainly to posturace. Here are it grazing ground of large numbers to been and early to the lab of such



CAROL BRIDGE A REMARKABLE TRIUMPH OF ENGINEERING SKILL

Named for Remarks Lit lake the January C. of Bridge mere the Discole (Certa.) — up to de 1; j. h. pr. compression 1; i. t. also let let a labele passmer it main the m
13 j. yanth long, and ever or feet about the nice that the up to the lit, seek y, and unable the pleep precising place road git are compliage number, git. total length of 1; justice.

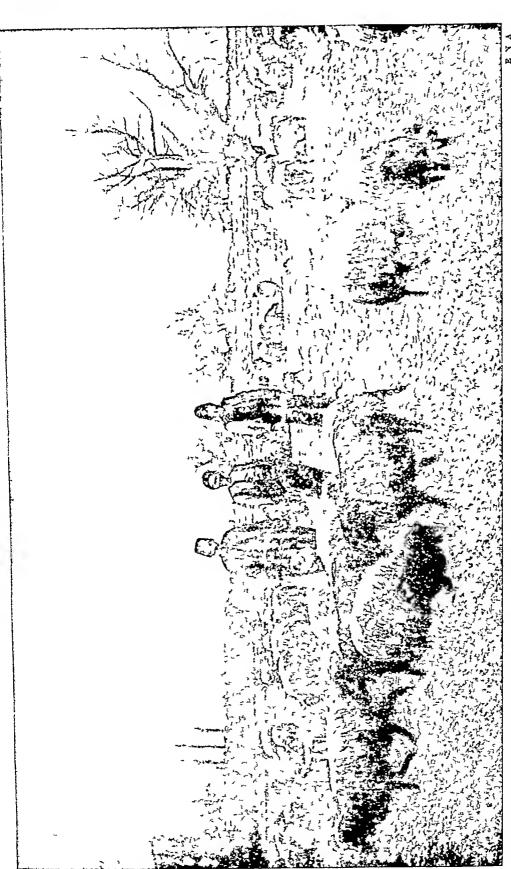
miraculou tran formation from waters wastes to flow restream fields.

Minerals have not yet been exploited sufficiently to give any settled economic value to the Dobruja. Here and there marble and granute occur-some of the best granite is found in the quarries at Macin and I-accea-and deposits of bematite have been reported from the Tulcea district. It was in this destrict that copper deposits including those of copper parties, were beginning to attract attention when the Great War convulsed the country Cosl is another mneral in which the territory is un doubtedly rich but this valuable industry is still undeveloped.

Where agriculture is concerned only the southern part of the country can be relied upon to produce good crops. wild-cycd shepherds who in shagey tooded sheep-kins with fierce dogs as their companions brave the silence and loneliness of these bleak wind swept regions. But the brown brig ind like shepherd with the breath about him of the plants and mountains is best represented by the Transylvanian

pasters known as Mocani who since remote times have de-cended with their flocks to these pasture-grounds for a certain period of the year the migra tion back to the highlands of Transyl vania usually beginning towards the end of April Apart from stock, farming there are certain plots in this northern district where wine fruit and tobacco are cultivated.

The chief value of the Dobruja to Rumania lies in Constantea or



In certain parts of the Dobruja, particularly in the Tulcea district, stock farming, especially with sneep, is curried on succession, on a summer peasant proprietors. In the north the sheep raising industry is for the most part in the hands of migratory shepherds who take up their abode on the isolated farms and in the villages of the plains of the lower Danube. Here in these lonely, wind swept regions the flocks are maintained from the beginning of C for the middle of April, when the hardy, weather beaten shepherds return with their charges to the rich pasturage on the high mountain lands SCENE SHOWING MIGRATORY SHEPHERDS

kustendje the only ice-free port of any importunce on the Rumanlan coast the low lying shores of which provide no facilities for rehable moorage Originally a Creek colony it was known as Toml whather Oxid having incurred the dipleasure of the Emperor Augustus, was suddenly "relegated about the year An 9 and it was here by the shore of the Funne as the Black Sea was then known that some eight years later the famous Roman poet ded.

Constantza is the scaport nearest the Rumanian capital Bukarrest from which it lies 140 miles almost due east and with which alone it processes direct rail communication. This is 15 means of the famous Carol Bridge one of the longest in the world stretching together with 11s viaducts some twelve miles across the Danube and its markies.

#### Why Comts is her Prospered

The fine natural advantages of Constantra which has been built on an outcrop of hard rock have been carefully developed by the Romannan government and had the Dobruja no other natural wealth this seaport alone would fully justify its existence politically and economically

The harbour possesses excellent ac commodation for large vessels, and Is heltered by long breakwaters. Owing to the gradual accumulation of mud, dredging operations are constantly maintained, one part of the harbour being dridged to the depth of over 25 feet. There is an extensive export and import trade and among the exports cereals and petroleum figure con spicuously Numerous sheds warehouses and grain-elevators have arisen on the quays a large petroleum basin for oil-loading vessels has been constructed, together with many oil-storage tanks and refineries. Nearly 80 per cent. of the Rumanian oil passes through Constants: for exportation.

The town suffered much damage before its evacuation by the Ru manians during the Great War but the bulk of this has already been repaired and the population is given approximately at 28000. The land in the vicinity has acquired considerable value and the suburb have great along the north-coast towards Mamaia a charming little resort where there, is an excellent beach for sea bathing South of Constantia lies Tear-Cluoul withits well known mud bath. a highly valued specific for relicimatic trouble

#### S mmer Resort of the Black Sea

Lighted by gas and electricity drawing its water supply direct from the Danube with its casino and well-ordered lotel. Constantia has prestige not only as the principal coastal outlet for the whole of the hingdom but also as a popular and fashionable scaude immer resert and served as it is his many important steamship lines. Itd fair to become an attractive port of call for travelles.

North of Constantia Sulina at the central mouth of the Danube is the only liarbour worthy the name until Odessa the chief port of the Ukraine is reached free a navil lasse has been established and the small town with a mixed population of about 8,000 persons far from lacking in commercial enterprise carries on a profitable business in several big factories and workshops.

#### River Lighters Replace Reilway

The absence of a railway is not acutely felt as might be expected, since the river lighters have met the requirements of the majority of people. What the river cannot carry a broad road measuring some twenty feet across and running alongside the southern bank will convey straight to Tulcea. Sulma is provided with well built quays and the depth of water at the bar is 24 feet Formerly as a consequence of well organized dredging operations sea-going vessels of 6000 tons could sail with heavy cargoes right into Galatz work of dredging is gradually recovering its efficiency and vessels of 4,200 tons pass easily up the regulated channel to

DOBRUJA 1658

the Danubian ports of Galatz and Braila Mangalia and Baltchik, both lying south of Constantza, are the only coastal towns of note Mangalia, a miniature port with two breakwaters and a pier, can offer no reliable shelter for ships owing to its rock-bound coast and the strong east winds Baltchik, situated on a bay of the same name, on the south coast of the Dobruja, affords a fairly safe anchorage. It has been connected

confusion Bleak and desolate as is this corner of south-eastern Europe—no man's land, yet every man's land—it has attracted to its and wastes innumerable aliens, outlaws, fugitives and desperadoes from other countries, those persecuted by church or by law, those seeking freedom from tyranny, those exiled for revolutionary doctrines "They are all the driftwood of the storms of history," wrote one who knew



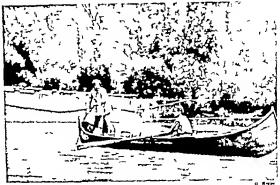
COMMUNAL FIREPLACE IN A TARTAR SETTLEMENT IN THE DOBRUJA
On the dusty, level, almost treeless plains of the Dobruja an untidy huddle of sleepy dwellings
indicates the village of some alien community—Moslem, Teuton, Jew, Slav or Latin, for the
Dobruja territory mothers numberless wanderers, irrespective of race and religion These village
homes comprise square wooden structures and quaint hovels fashioned entirely of wattle and mud

with Dobritch by a railway which, tapping a fertile area, should materially assist in the development of the port

For purposes of local administration the Dobruja is divided into four departments, each under the direction of a prefect, and each containing a civil tribunal. The total area is 8,969 square miles—only two-thirds of which, it should be remembered, are habitable—and the total number of inhabitants is roughly given as 450,000—roo,000 less than the population of Bukarest. That they are a remarkable miscellany of races and religions is a well-known fact, no fewer than twenty nations are represented here in picturesque kaleidoscopic

them and the lonely Dobruja well In this rude, wild region they meet, but fail to intermingle as brothers. A common home they have found, but creed, tradition, language keep them apart, and in small communities they live, side by side, yet aloof, Jew, Moslem, Slav, Latin and Teuton Indeed, the villages in the Dobruja usually contain a homogeneous population, whereas towns with 4,000 or 5,000 inhabitants are really made up of four or five adjoining villages, each of a thousand souls of distinct race and creed

In most parts of the Old Dobruja the Rumanian element predominates Along the southern boundary, however, and in 1659 DOBRUJA



STURDY FISHERFOLK OF THE TREACHEROUS DANDIAN MARSHANDS.

If the little little had noted had been a little are been little expected by a model and be been little deem feet that can be the little can be the littl



A COMESTIC LIFE IN A RUSSIAN FISHING COLONY IN THE BALTA
A control privacy of lakes, casals, seems and blands, sometimes have a the flatta, is not at
along the correct of the lower floats. Here the absence for those as customes mough to branch the
accretiance and discern of seem applications note. These isolated region control many mind
there bears, it made read whilespe on stuff. Earl kills it is alongly by simple (spores) follows.

the coast region of the north, between Cape Midia and Tulcea, the bulk of the population is made up of Bulgars. The Turks, on the other hand, are distributed about the country. Other foreign elements comprised in the mosaic of the Dobruja population include Tartars, Little and Great Russians, Germans, Little and Great Russians, Germans, Italians, French, Serbians and Gypsies, and there are several distinct religious communities such as the Skoptsi and the Lipovain, reminants of old heretical Russian sects.

The villages are, for the most part, of poor appearance, bare and comfortless, buffeted by fierce winds and rarely with sufficient trees to give adequate shelter In striking contrast with these are the hamlets of the fertile area, where life is less burdensome and where nature needs less persuasion to yield her rich stores Rude wooden shanties, low mud huts, wattle and thatch provide shelter for the poorer classes in other parts of the Dobruja, while on the treacherous marsh-lands of the Danube ingeniously fashioned reed huts house the fearless fisherfolk, many of whom lead a primitive and precarious semi-aquatic life on the floating islands of weeds

The primary occupations of the people are fishing and farming. Not a few self-contained communities exist who, depending upon their own enterprise, wrest an exiguous livelihood from arable and pastoral pursuits. Some of the fisher families are singularly adept at plaiting and making baskets, and find inexhaustible supplies of material in the vast quantities of reeds and willows.

Silistria and Tirtucaia, two Danubian ports, twenty-eight miles apart, cach with about 10,000 inhabitants, are strategically important. Cernavoda, a town of under 6,000 inhabitants, situated north of the famous bridge, has several factories and an oil refinery.

Tulcea, the capital of the department of that name, is a thriving town and river port with a population of some 18,000. It has an important fish market, an active transit trade, and is the northern junction of the new railway. This railway branches off from the Rustchuk-Varna line in Bulgana, bisects the entire length of the Dobruja, and has stations at Dobritch, at Megidia, where it connects with the Cernavoda-Constantza railroad, and at Babadag, one of the chief markets for the wool and mutton of the Dobruja.

Since the day when it came into the possession of Rumania, an unwelcome acquisition, the Dobruja region has developed many of its latent resources and shown a gradual growth of commercial activity. Several districts have been completely transformed by new roads and railways and it is with special pride that the Rumanians watch the unmistakable progress of Constantza, their national port

Thus the Dobruja, the scene of many battles, the home of numberless aliens, the land of marshes and barren, treeless steppes, and yet withal the land of immense cornfields, wooded hills and pastoral plains—this wayward region, untamed but not untamable, should prove to be an ever increasing source of prosperity to Rumania

### DOBRUJA GEOGRAPHICAL SUMMARY

Natural Division A hump of land round which the Danube curves, a passage way from the Russian steppe to the Balkan Peninsula and Constantinople, provided the Danube delta is crossed Limestone conditions prevail in the south and along the ridges, with riverine alluvium on the west and north (Cf Bosnia, Italy North)

Communications Two cross-routes, one lateral, the other central r The river route along the north by the Sulma

Channel to Snlina and the Black Sea 2 The railway route across the Card Bridge at Cernavoda to Constantza, the chief port of Rumania For Danube navigation, see Austria, Czechoslovakia, Hungary, Rumania, Serbia

Outlook As the New and Greater Rumania concentrates more steadily upon the capital, the formerly despised Dobruja will be developed in relation to Constantza, which should become the greatest port on

the Black Sea



CHIEF STREETS AND BUILDINGS OF DRESDEN BY THE ELBE

rococo (or baroque) style of architecture beloved of August the Strong originally intended to be the beginning of a new palace, but it was never finished It now houses a number of valuable collections In its vast courtyard stands the bronze monument of Frederick Augustus I, the ally of Napoleon The museum containing the picture gallery and the Opera House, both in the Renaissance style, are among inasterpieces of modern Luropean architecture

Of churches in Dresden there is no lack Roman Catholic, Protestant, Jew, Englishman, Scotsman, Russian and American are all catered for The Church of Our Lady (Frauenkirche) with a cupela 300 feet high, the

Church of S Sophia, its altar said to be a fragment of the Temple of Jerusalem, and the Hofkirche (Roman Catholic Court Church), surrounded by an army of gigantic stone saints and containing a famous organ and an altar-piece by Raphael Mengs, are the most interesting

The Royal Palace, dating from the sixteenth century, surmounted by a tower 387 feet high—the highest in Dresden—has a plain exterior, but within is gorgeously decorated. It contains many interesting frescoes and pictures. In the neighbourhood is the beautiful Georgentor. The Prinzen Palace contains a fine chapel with pictures by Torelli. The Brühl Palace, built by Count Bruhl, minister of August, the Strong, as a privite

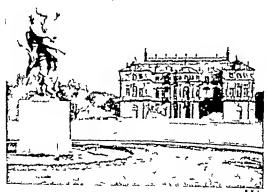
rendence is used as a Parlituront Housely the Sixon Det. In front of it facing the river is the Bitall Terrice advised with statuary and planted with trees. It makes a marinformity mens I make a marinformity mens I make a marinformity mens I do Market contains a memerial. It the wat of 18%. Among It public morniments on may mention the Murroe monument. The state of West it comply at whether land due in Director and the hojested monument.

In the Neustali on the richt ink of the river are the premise equestrain statue in gilled expect of Auru t the Strong and the Japanese I alare both by the same energetic prince as a summer residence. It was so call I because of the Japanese proclaim for metly preserved three. In these transferred to the Johanneum Museum in the Alt taid. It contains the royal library compit in, some genyro volumes (not to kes) together with numerical interest me exhibits, among others a hero-

gliphic codes from Yucatan (one of the lost exclusion of Central Ymerica), a pirthment manu cript of the Goopels made in the districtific century, by call an Inh monk poems in the bandwriting of Han Sachs the cold fer I still of Nurmilleri the Junar of Sultan Hajar t II and the manuscript of a Turkish poem (with illu tration) in a most of Turkish poem (with illu tration) in a most of Turkish poem.

Mener the pert was form here in trigt in the titret now called the formerstase the Love is now the former Museum. Schiller who was a friend of former father write here. Then Carlos. Also in the New tada is the Albert. Theatre decerated with culpitates and massive decreased with culpitates and unface is scratched away according to the design leaving a dark cround beneath.

But it i chi fly for its arti tie lustorical and scientific enflections that Dresden is famous. Its picture gallery



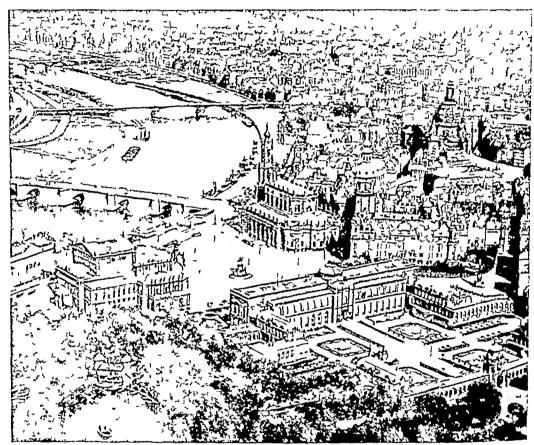
STATELY PALACE THAT HOUSES BAXONY'S ROYAL LIBRARY
Among the buddings on the right bank of the I file is that is 100 known the J purce Palace;
this name is realisticated and passage port has once howest there, although it is now
complete doubly for the royal library. The beddings a cereif on 1713 by Count I Funding and
purchased by Augustus I 1; the trary we should not be disterned to century.

DRESDEN 1664

occupying the museum, is second perhaps only to the Uffizi gallery in Florence Augustus I began it, Augustus II enlarged it, and Augustus III completed it by adding the greater portion of the gallery of the Duke of Modena, for which he paid £180,000

Veronese, and Canaletto's Views of Dresden In addition to some 25,000 paintings, the gallery contains a collection of drawings and engravings arranged in chronological order

In the Johanneum Museum are beautiful specimens of Chinese and Japanese



Deutsche Aero Lloyd & G

DRESDEN FROM AN AEROPLANE FLYING UP THE ELBE

The three bridges over the Elbe are the Frederick Augustus, the Carola and the Albert Bridges, in that order as the view recedes—Immediately below is the Zwinger with its garden and lake, fronting on a square which has the Opera House on its left and the Hofkirche on its right—The dome is that of the Church of Our Lady, while the white spire belongs to the Royal Palace

according to modern estimates an absurdly small price

Its chief treasure is the Sistine Madonna of Raphael which occupies a room to itself. The Madonna of Holbein the Younger is also given special prominence, and among other pictures may be mentioned Correggio's Mary Magdalene, Rembrandt's portrait of lumself with his wife sitting on his knee, the Judgement of Paris by Rubens, Titian's Venus, Van Dyck's Charles I of England, the Adoration by Paolo

porcelain On a table in the centre of one of the rooms stand the famous vases given by Frederick William I of Prussia to August the Strong in exchange for a regiment of dragoons. Augustus would seem to have had the best of the bargain. The vases still remain—as beautiful as when they were first moulded. In the last room are exhibited specimens of Dresden's own china, dating from 1709, when Böttiger (or Böttger), a young chemist, discovered the art of making porcelain—so far

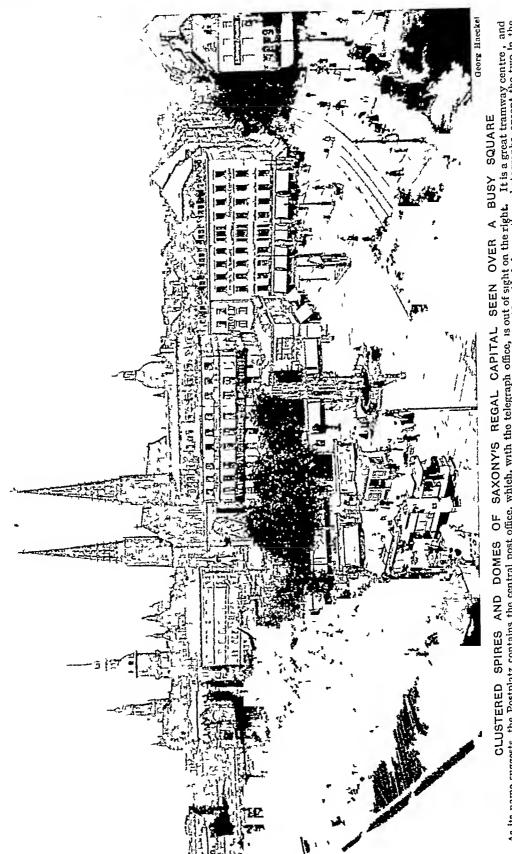
DRESDEN



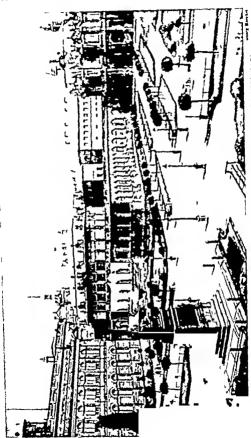
Presiden new town bill Crisical Rath up to the other of Food and may and Mountly white, has dismitted a particular toward that the dismitted may a first the first that a first that a first has a first that a fi



SOURCE ON THE BRUHL TERRACE, DRESDEN'S EMBARKMENT
A feature of Dresden is the Bright Terracy had out along the busis of the Fibs by Count Bright in
758 On it are many due buildings, including the deadersy of Art errected toward the end of last
century) that is the entirace to its reliabilists half. The sected states is of Lasting Richter by
Arthrene, while on the left is the done of the Caucht of Our Last's



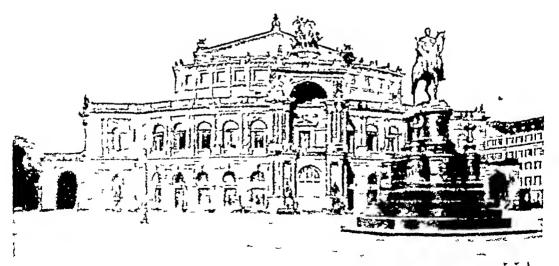
As its name suggests, the Postplatz contains the central post office, which, with the telegraph office, is out of sight on the right. It is a great tramway centre, and from the roofs of its westward buildings there is a good view of Dresden. The various spires may be identified from other photographs, except the two in the from the roofs of its westward buildings there is a good view of Dresden. The various spires may be identified from other photographs, except the two in the centre of the Zwinger, while on the right Wilsdruferstrasse runs towards the Old Market. The centre which belong to the Church of Sophla. On the left is a corner of the Square is strangely known as the 'Cholera Fountain."





CENTRE OF THE OLD TOWN, THE ALTMARKT OR OLD MARKET

From a window of the old town hall we look across the Old Market to the tower of the new town hall, with the spire of the kreuzkirche nearer at hand. Though the foundation of the latter dates from about 1.00 the present building is a restoration following a disastrous fire in 1897. In the centre of the market place is a statue of Germania, commemorating the Franco Prussian War.



DRESDEN'S HOME OF OPERA WITH ITS CURVED FACADE

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a longe was control that it for the Latin had been known for verathen and vario. The time the son Chin, "is beared a minimum that constraint to that control to the on an amorticity of form mends that it on the formal that containts in the formal that containts of the Mark Advisor.

Alam the Levens the L titual control to ma provide t of some a start the motor of the efallbeilerier in Il this to let the well of little later Can been als a the une I menck fell better 15m en termel In I. from I from the first I from committation practice it cone to the same there) the lattle Coul f Water then medevalare i een m.t. Lul t and others of it had a near 1 itles reible grate 11 be elmalum and there MV there

### Maryon of Spiral I I White

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The Grein Vault in the Righal alace so called from the colour 4 lts deckar toors contains a magnificent collection of jiwith and preclous tones. There are to be seen there the regala of August the Strong (as long of Poland) the Electroal Sword of Saviny, the Electroal Sword of Saviny, the Electroal Sword of Saviny the Electroal Sword of Saving the Electroal Sword

In the Albertinium is an interesting collection of sculpture. In the Creat Garden (Grosser Garten) is the museum I antiquite a collection of a larger lipits (to wire 4 th in the wird in a tribus a collection in the first collection to the first larger lipits (see the first larger lipits). In the Zwinger are the speak of limits and limits and speak of the first larger lipits (see the first larger lipits).

#### Serren er of Meric

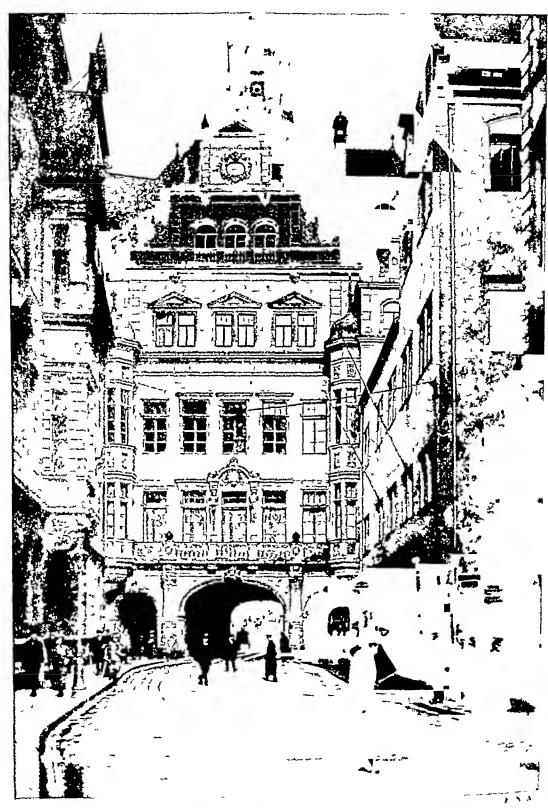
the lemma be and the the capital It while from attract tubert from all over the with and if the all is has been fine sift er at them a lumbered to a at a constant at the fement the harms white in the Correlates with It Int a lete with Rents stated as I flore elements. Is ra tol. Der Harrende II Manger and Tand upon worr ally test in head at Dresden the letter from Went term doff on has limes to from that till the Real street of a rem which unfaturath for himself he tal a teremitent tolt

Dreshen red mly a my diplea ure it is not determany great educational centre and all loss manifacturing from himselve leather gill per lip articular described section and mu used in trument layer hancings and internet Lorinath by Porsele nuclean be manufactured without fall chimners beldling met. It approximately good inhalitants are mostly Intheran though the Court used to be Roman Catholic.

#### Selviary Red letions

It is a bright cheefful from some on feet above sea level abounding in fine open spaces and tree-shaded promenates. What trikes the Lighthman is the tidines and eleanness of its streets. In Dresden It I not permitted to scatter durty paper eigenette-end tran telebra and haman-skins about the pavement Receptacles are provided for all such litter and wee betide the slattern who knowes this most excellent regulation.

Too many regulations—thinks the visitor at fit t. But after a while he sees the advantage of most of them and becomes converted.



WHERE THE ROYAL PALACE SPANS A DRESDEN STREET.

The Poval Palace acquired its present Kenniss new character in 189 (1999) but its foundation dated to kenniss. Here we are fool in spoint from Schlosstrasse through the Georgeotor and cookset the level Angulus Brills - this rate levels beneath the wing connecting the pulsee proper on the left with the perturbation in a known as the Stallgeblade on the right.

At the opera the lidics take their Late of There is no arguing at not it no wondering a to whether this dame will, or that dame will not She takes it off and leaves it in the gardende" before she is allowed to sit down In the rarks there are special scats for children with multi-front other scats being for grown up -" nur für Erwachsene " After ten o clock at night lt is "verboten" to play muscal in truments in the streets sto lent in turning leane-and especially stalents of the conservatoire of ma ic -do occa locally transcers this law

#### A Pleast Tees to De It t

The Dredeners are a friendly felk and Dreden is a pleasant town to dwell in gemoticle they call it The present writer peaks from some years experience. One can live there simply and inexpensively before the Creat War the best wat at the opera was six marks. There is no special dressing required and one goes ther and returns by the cheap and convenient electric tram. Dresdeners are early folk The opera and the theatres are over by ten. There is music everywhere. In the cheap concert halls one takes one's Beethoven symphony together with one's beer and sausage

But characteristic in particular of Dresken are the private concerts got up by the students them-cives. One meets mall groups of them towards eventinehastering through the streets violun-case in hand, or the great bass-viol upon the back. They walk with care and circumspection not only because of their precious instruments but also because of their precious bottles in their bulging pockets. At these reunions it is the etiquette for the host to provide the estables, but each student brings beer estables, but each student brings beer

To the Albert Theatre In the Neustadt, one goes when In clastical mood. One enjoys there Shakespeare, Molsre Schiller and the Second Part of Faunt. The sudience always comprises many children—not there, perhaps, entirely of their own free will For simple folk there are other theatres, also muse halls and cinemis. Drisden a plentifully supplied with eafs and restaurants. The great Belvekte on the Bruhl Terrace used to be the most fachionable but times change.

#### William Valed Pleasures

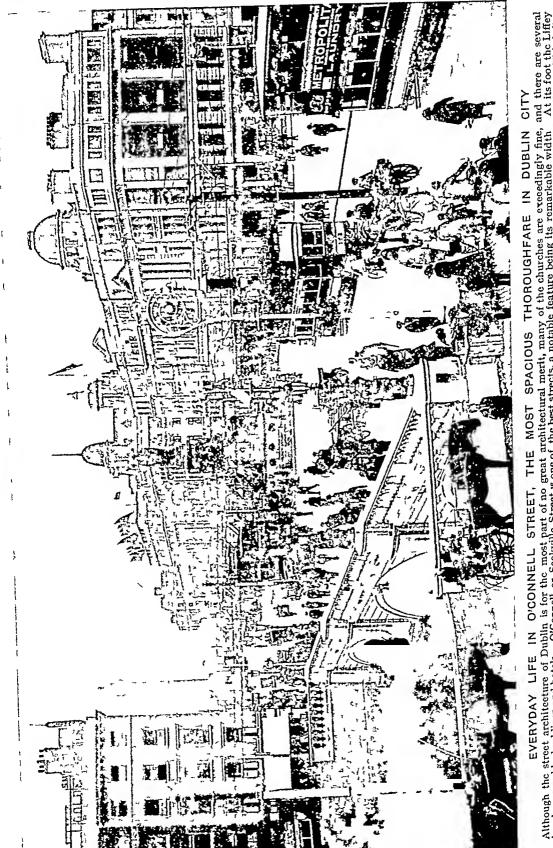
Dresden can be very hot in the summer and cold in the winter when often the little is frozen from bank to lank. Som for works skating can cenerally by depended in in Dresdeners with German thoroughness take their skating seriou ly. The Carola See and the Labus Tich, both in the Creat tankn are west and fixeled each night. Heated dre incroom and bna Jobianty ma strenusion. Drewlen kates there to excellent music Dresden is within easy distance of the brautiful Exercisize and the Messener Hochland, the Saxon Switzerland it is called. In winter one draws there in leight, the bells making pleasant music anxing the white windlind An I In steamer one reaches Plinite once a royal château with sweet gardens and a pleasant restaurant where one eats wild strawberries under the trees.

#### Dresden Sunday Evenlet

On Sundays, after the great business of the midday meal the great beer halls are everys here crowded. Children play and tomp. That rithers six draining beer and gossiping and cracking jokes. After the supper (Aliendirot) the band takes its place and the floor is cleared for dancing.

And Dresden is a paradise for birds everywhere in private garden and in public park, at and the Futterhäuser tiny abelters to which the birds throng night and morning knowing they will always find a meal there.

Much of this description applies to conditions of life that obtained before the Great War. Since then modifications have been inevitable but with the restoration of normal stability and prosperity Dresden will resume the character that has given it its individual charm.



Although the street architecture of Dublin is for the most part of no great architectural merit, many of the churches are exceedingly fine, and there are several handsome public buildings and hotels O'Connell or Sackville Street is one of the best streets, a notable feature being its remarkable width At its foot the Liffey is crossed by the O Connell bridge near which stands the O'Connell statue an imposing work of art while in the brekground rises Nelson's pullar This lofty, 120 foot fluted column in Dorie style was erected in 1806 and the railed platform at the top commands a magnificent panorama of the city and its environs

# Historic Capital of the Irish Free State

## by Katharine Tynan

Poet and Novelist

DUBLIN lies beautifully between the mountains and the sea. Here coast-line has an Italian air as her townships lie out beside a bay blue as an Italian bay she and they under dove-grey sides or silver and golden mists are ever beautiful. The Irish air is soft as silk and the whole feeling of Ireland as you come to her is genth.

It was unlikely that a people with a genins for creating towns should pass the site of Dublin by The Danes those sea revers, coming in their long boats and taking what they wanted were her first builders in A.D. Esp But it was not until after the corung of the Aormans in 1169 that she became a capital city. Before that in 1014 the Irish had rich temselves of the sea revers at the Battle of Clontar!

The Normans came to stay They established themselves in Dubin, in Waterford, in Kilkenny where still the Irish Town huddled outside the walls marks the humbler place to which the conquerors relegated those they had supplanted. England already had fallen to this dominant and predatory race. The Normans were great and generous conquerors. In time they amalgamated with the Irish. Strongbow the greatest of them had barely landed at Waterford before he married Eva, the young daughter of Dermot McMurrough, king of Leinster.

### Chief City of "The Pale

Dublin became the cluef city of the Pale, that is to say the Occupied Territory in Ireland, taking in Louth Meath, Dublin and kıldare, with outposts here and there through the country Bristol merchants flocked over to Dublin and set up their businesses.

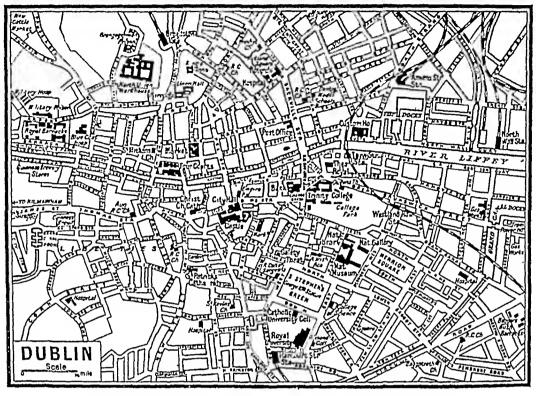
there The Vormans, meanwhile as time went on were building splendidly ruling and fighting splendidly and marrying with the Irish. Not all the laws which in time were enacted forbidding marriage with the Irish, and fosterage by Irish mothers, could prevent these things. The de Burghs of Comanght flung off their Norman dress and donned the saffron kilts of the Irish. The Normans became in time more Irish than the Irish.

#### Town Walls Vital Protection

For a long time Dubin within its walls, on the banks of the Liffey was a little town half a mile long by a quarter of a mile wide. It contained nevertheless two cathedrals—one more than any city of northern Europe—a dozen abbeys and a score or so of churches. It did not extend beyond its walls, for there were always the linsh tribesmen in the Wicklow mountains ready to swoop down upon the counfortable citizens of the Pale, to harry them and to carry off their cattle.

It had various stirring incidents. It defeated Edward the Bruce it received and crowned in one of its cathedrals Perkin Warbeck, the impostor. It saw the rebellion of Silken Thomas, son of the Earl of Islidare. The Reformation came to it and passed it by except for a few conforming bishops. Most of the history of the likidite Ages in Dublin still more in Ireland, is a record of great fighting or little fighting in which the smoke of battle obscures the things that were of every day.

All through the Middle Ages Duhlm remained a city of the English Pale. Only the hewers of wood and drawers of water were Irish. The power of the



PLAN OF IRELAND'S ANCIENT SEAPORT CAPITAL

Irish had been broken by successive plantations, the lands of the Irish being given by Queen Elizabeth and by James to various great English adventurers, capable of holding what they seized The Normans were in time on the Irish side. The terrible clearances in Munster of Elizabethan days swept away the Earls of Desmond and the southern Fitzgeralds.

Dublin had shared the fate English cities It had suffered fire and pestilence It had its English viceroy and its English council and its English institutions, and from the grey walls of Dublin went forth armies to fight The Irish chiefs and lords were for ever hurling themselves against the English power Ireland, under Elizabeth, had become the happy hunting-ground of great English adventurers Gloriana's reign Raleigh sought El Dorado on the shores of the Blackwater, and Spenser wrote the "Faery Queen" in the midst of the desolation and famine the suppression following Desmond rebellion The lands and estates of the Irish were being more and

more parcelled up and distributed, their original owners being outlawed men on the mountains and bogs

Now and again an Irish chieftain went over to treat with the Queen, making a picturesque and romantic figure in the court of Gloriana the Proud, one of the great O'Neills, who was afterwards a great rebel, was a page there, and there was another O'Neill, known as Phelim the Bastard, of whom it is a tradition in the southern Irish countryside that his wit and audacity so pleased Gloriana that he might have been of her suitors, and a successful one, if he had but chosen Then there was he who is called the Sugaun (or straw) Earl of Desmond, a tragic boy, who having been educated in England came home to the passionate welcome of his people, only to be cast out and disowned by them when they found that he was of the English faith

Dublin was still a small city and a dark one, crowding about Dublin Castle and the two cathedrals which had become an appanage of the new religion To Dublin Castle came in

Elizabethan days the captured Irish chieftains. Hugh O'Donnell Larl of Tyrconnell was a privater in the Berminghum Tower in those days be alter escape and recapture finally got fire by way of a sewer. He had a period of rest and shifter with Leach Macllugh O'Byrne one of the Wicklow chiefs for he had crossed the mountains barefoot in the snews, weather just before Chin timas and needed rest and care. Lindills be made his way to thoo the week with the probability of Uter and Earl of Tyrcose he mide a La tstand against the 1 n ls hyewer.

Dublin of that day is in the mole of war with an occasional labeliness of pestilence and plint of steel and fire and the murkiness. I upp or the traffers were trading even in those turbulent days but there is not much tecord of what was huppening beyond the fighting. Queen Plusabeth's College of the Sacred and Lodwided Trinis late leen established on what was a manh. Long after it had become a recognited east of learning the to lenis

were prohibited from shooting stupe in the College Lark. On either side of the siver still lay the marshes

Cromwell's campaign in Ireland to sed Dublin by She had her excitements for the land penod when James II research, and there was a Catholic regim even in Trimity College Irish and the Anglo-Irish lord They had acclaimed the Restoration and the great r pricing that that event brought to be land was bared in In the knal citizen of Dublin Ireland leved the mountie Stuart as the peace coul Hove the Hanos crian-Like the other lovers and servants of that fascinating dynasts. He was but ill repost. Dublin began to expand under Charles II The Duke of Ormond was victors he was uch a plended and stat is person as the old In h loved within a man of taste and The first bridge was cultration threen across the Jaffey to replace the fernes S Stephen's Creen was laid out the Royal Hispital at Kilmainham Ireland Chelsen was built from the



PARLIAMENT SQUARE, THE QUADRANGLE OF TRINITY COLLEGE, DUBLIN Theiry College Dublis, affectionately known as T.C.D was founded by charter in 1991. A leity companies occupies the center of the large quadrate. On the leit, the north this are the chapter of the control of the large quadrate. On the leit, the north this are the chapter of the large of College Chambers on the north, east of the picture was the examination half and library trange of College Chambers on the north, east of the picture was the examination half and library.

design of Sir Christopher Wren The Bluecoat School was set up in Blackhall Place on the north side of the river Phoenix Park, which is one of the glories of Dublin, was planted originally as a pleasure-ground for the viceroy under the Duke of Ormond, but after a time the people were made free of it

## Falling of the Stuart Star

Doubtless a reason for the Irish allegiance to the Stuarts apart from reasons of romance, if romance is ever reasonable, was their strange friendliness, in that day, towards the Catholics The sons of Henrietta Maria must have some leaning towards their mother's religion and the liberal views of the Merry Monarch towards Catholicism were well known James II, cast out by his English subjects, entered Dublin amid great popular rejoicings Catholics had flocked out of their hiding-places to welcome a Catholic Mass was said once again in Christ Church, and a Catholic provost, who was also an ecclesiastic, was appointed to Trinity He is credited with having saved the library of Trinity College from the turbulent soldiers who, for the moment, had turned the place into a barrack.

The Stuart star went down at the Battle of the Boyne, and the last stand of the Jacobites was made at Limerick After the surrender at Limerick of the men who had fought for King James—roughly the Catholic aristocracy of Ireland—the descendants of the old Irish and the Norman families went away and took service in the armies of Austria and France and Spain, leaving their humble co-religionists to the oppression of what was known in Ireland as the Penal Days

## Evolution of the Anglo-Irish

During that eighteenth century, so bitter and dreadful for the Catholic Irish, the Anglo-Irish ascendancy, as it is called, ruled in Dublin and over the rest of the country Successive plantations had evolved the Anglo-Irish, a

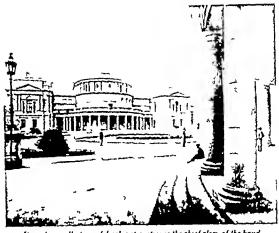
dominant and constructive race. In the eighteenth century Dublin begins to emerge from mists and shadows. The real Irish were negligible at that time, debarred, by reason of their religion, from any rights of citizenship or any share in the government of the country, they were refused education or any of the rights of property, or the right of religious freedom.

Dublin went on as an English town with certain things added The planters had gained something from the air and the skies and the mountains and fields of Ireland The Anglo-Irish sat in their castles, an element alien from the people at their gates, fast ceasing to be English, whether they would or not, coming to love the people, whether they would or not, acquiring a mad gaiety and irresponsibility They out-Mohocked the English Mohocks the Medmenham Abbey of their English namesakes they had the Hell-Fire Club on the mountains overlooking Dublin, the ruins of which are still there tradition is that the devil himself came and sat at the table with these roystering Anglo-Irish gentlemen

## Wigs on Fair Green

It was the day of the duel, when

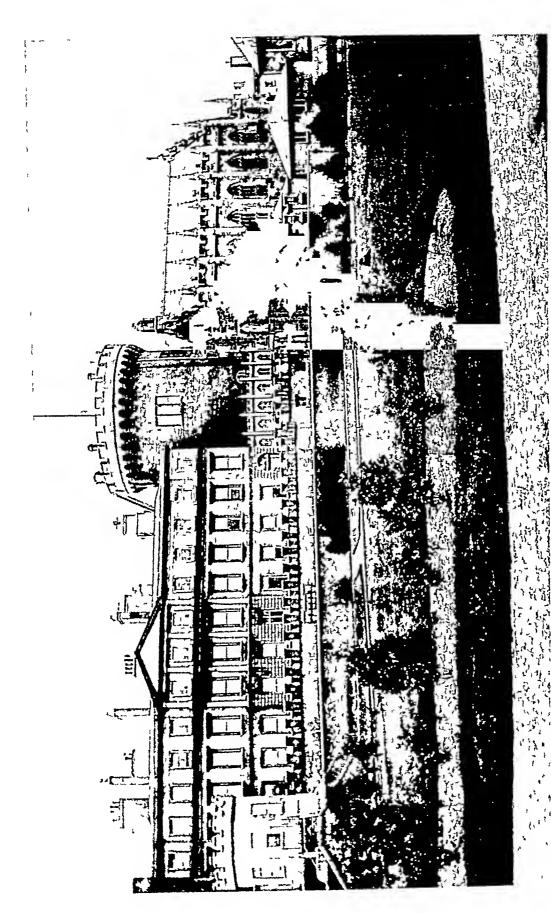
every morning gentlemen pinked each other in Phoenix Park or Bully's Acre, for some real or fancied wound to their Duelling, presumably, became a habit, and if one could not have it by fair means one must by foul reveller at Donnybrook Fair, who trailed his coat over the Fair Green, calling out "Who'll tread on the tail o' me coat?" and fought the man who accepted his challenge, only imitated the Anglo-Irish squires like Mr Ram of Gorey, known to his contemporaries as the Mr Ram, when he had Great Ram no legitimate cause of quarrel that might be met by a duel, went out riding a horse with his face to the crupper and his saddle stuffed with straw, scrutinizing passing faces for If one smiled he was instantly challenged by Mr Ram



Its unique collection of lessk antiquities is the chief glory of the kandsome National Museum of Science and Art in Kildare Street Dublin



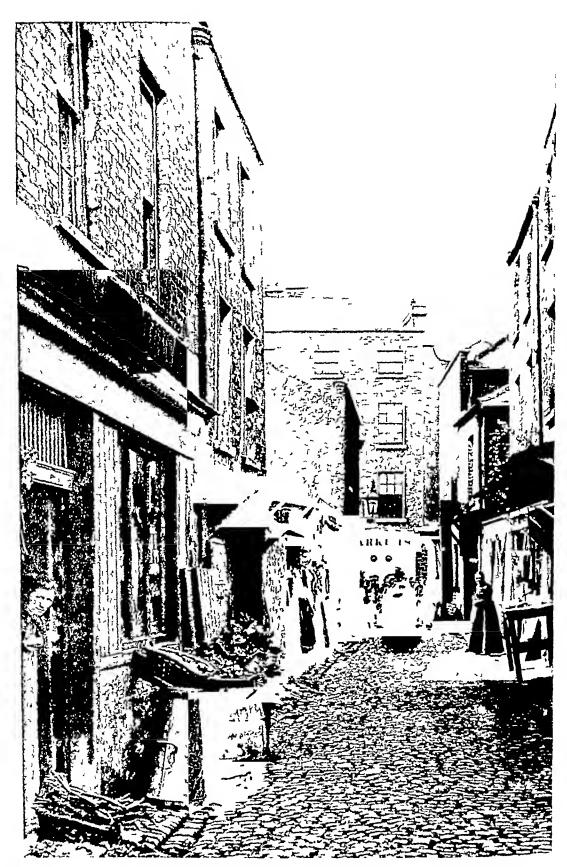
DUBLIN On the north side of College Green behind the Gralton Statue extends the noble colonnaded Ionic façade of the Bank of Ireland



of Sir William Bermingham, is among its oldest portions.

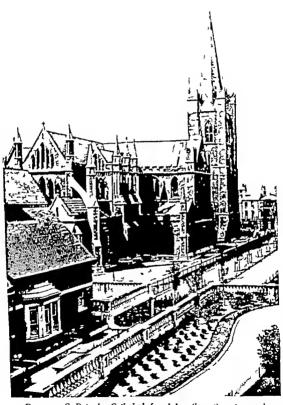


On the right side of the 18. Phoenix Park covering nearly 2 000 acres is the largest forth in Europe. On the right sids of main greene is the former Viceregal Lodge screened from public erre by frees and deuse shribberies.

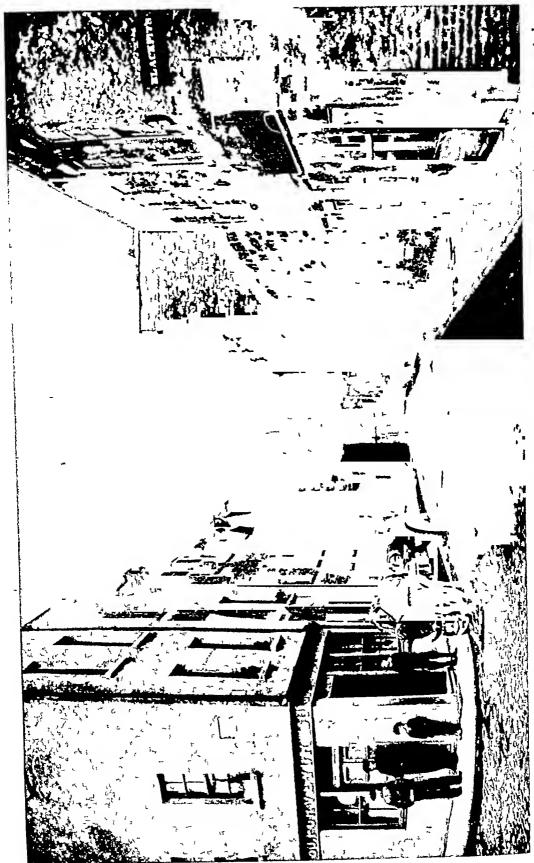


Dublin About the Castle and Cathedrals lies the oldest part of Dublin with many squalid alleys lined by mean houses let off in tenements

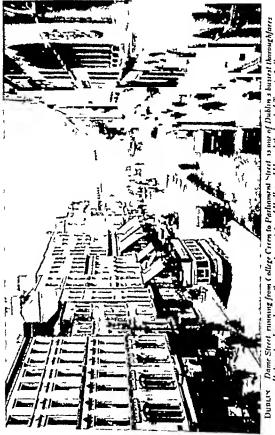
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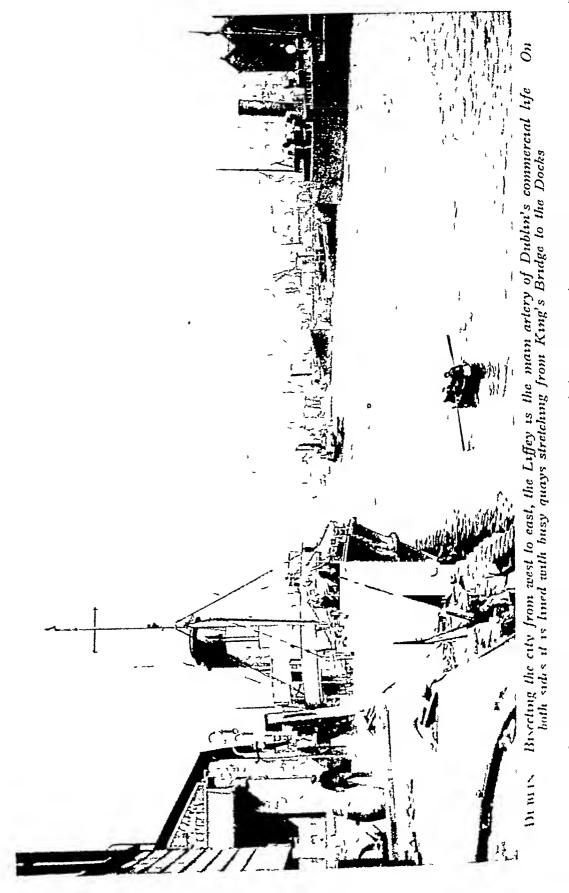


Dublin S Pairick's Cathedral founded in the 13th century and restored in 1860-18 a superboructform church with a 14th-century lower 1681



West of S Patrick's Cathedral he the Liberties, a district whose name commemorates privileges granted by of S Thomas over 600 years ago. Here mean streets abound, of which this, New Row, is one





was short It was splended while it lasted, but his brilliant reign ended with his sudden death before the Anglo-Irish had had time to get tired of him

Dublin was practically rebuilt in that great half-century The Anglo-Irish nobility and gentry, after making the Grand Tour, came home dissatisfied with their houses There was a veritable renaissance in Dublin During those years Dublin moved across the Liffey and built splendid houses Sackville Street and the squares north of the city, Temple Street, North Great Georges Street, Dorset Street, Great Britain Street and Summer Hill—the names are redolent of the time wherein they came The Lords and Commons of Ireland had gone a-building and they did it royally

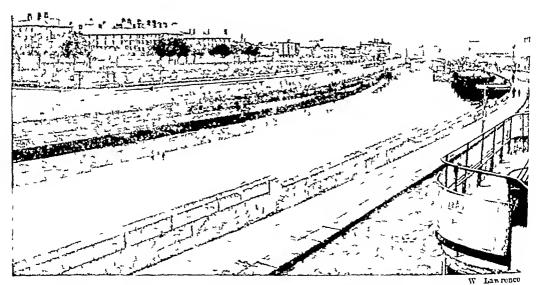
Artists were brought from Italy to decorate the interiors of the houses with the stucco work which yet hangs on walls and ceilings of dingy dwellings, still shapes of beauty Angelica Kauffmann painted the ceilings of some of the houses. The marble mantelpieces were inlaid with colours by one Bossi, an Italian artist Chippendale's and Sheraton's pupils were working at cabinet-making in Dublin, and the

Dublin silversmiths were doing beautiful work, as were the glass-blowers of Waterford and Cork

The man of whom it might be said that he found Dublin mud and left it marble was John Beresford, Commissioner of Customs, a truly Roman personality The Beresfords were the great power in Ireland at that time

The Beresfords, unlike the Fitz-geralds, never sided with the people They were not concerned about freedom for the Catholics or legislative freedom for the country But John Beresford had great dreams and he found the man to give them life in James Gandon, an architect of genius For his noble patron Gandon designed the Four Courts and the Custom House, things of beauty in stone. To see the Custom House as it used to be, in the misty Irish air at dawn or sunset, was to realize "a rose-red city, half as old as Time"

Society in Dublin then was very splendid. At the dances and assemblies at the Rotunda, the Assembly Rooms which Dr. Bartholomew Mosse had built on to his Lying-in Hospital, to afford it a revenue, all the distinction and beauty of Dublin and visiting Dublin was to be



ERSTWHILE ROYAL BARRACKS VIEWED FROM ACROSS THE LIFFEY
On the north side of the Liffey, between King's Bridge and Victoria or Barrack Bridge, stand the
extensive multivry buildings dating from 1786, formerly known as the Royal Barracks Behind them
on Arlom Hill, are a military hospital and prison. In front of the barracks, between them and
Albert Quay, Barrack Street runs on the left into Parkgate Street, at the end of which is the Park



MAIN DATE OF PHOENIX PARK, OUBLIN'S BEAUTIFUL PLEASAUNCE Them 1 to 10 101 11 7 Th 12 Parks to the main home in the lift of the main them in the lift of the main the lift of the main the lift of the main the lift of the lif

seen Is in Wolfy we vicining the sainths Counties. At Mariat her homes on Verted into a Maribetty Institution which the criticens of Dribbin use Ir. call the Madainty Weeks not I in his Journal—the plendause. If Morra

Journal the parmaies ( More The Irawing room was lined with mether of pearl Ma ! he wrote prophetically that all this mo t

na s like a dream

Towards the closing decades of the registeenth century the ladies at the Rotunda balls began to wear their poplin gowns sprigged with green and silver sharmords—poplins were introduced by the Huguerous who found a refuge in Dublin after the Revocation of the Educt of Nantes and had formed a most estimable body of citizens. Etherife!

Egalité! I raternité! were sounding

In 1782 the Volunteers proclaimed the freedom of Ireland to have her laws made and administered only by the king Lords and Commons of Ireland. The lion s whelps again. England had been killing out the Irish industries of her colonists by preferential tariffs for her own products. England accepted the will of her colonists for self-deter mination. It was a proud moment

in lind hyd. Lit perpetua in Fraitan's proud greeting to her

Ala Thirteen year later came the R bellion of 1795 art bellium which was more Protestant and Anglo Irish or Scotti li of the North than Catholic and Celtic. It went down in blood and two years later the Legislative Union was carried.

For many years Dullin wa as lead the Irish gently became absentice. Their great house went to ruin and gragrew in the streets of the city. Very slowly Dullin and Irisland began to recover. The nineteenth century brought periodic famines and pestilence culminating in the great famine of 1848 with the resulting emigration. The population of Ireland which had been eight millions fell to four millions after the Black. 48.

From 45 onwards there was a revolutionary movement about every decade or so. Then came the Home ink Boyr which was run by Girondist gentlemen on ideal principles the Land League of 1879 following two or three wet summers Home Rule agrin with Mr Gladstone as its Introducer Dublin was the centre of all these movements

or, at least, the controlling factor course the Revolution has changed the complexion of the Dublin streets It has cersed to be a city of the Anglo Irish and some of the tokens of their ascendings are gone or marred, like the Custom House, the Four Courts and the old Post Office - It has no longer an Atheman look, though nothing can ever take away from it the fortunate beinty of its situation. Le in remember Dublin is full of country people used to be sun-browned checks and ple isant country speech and the height and breadth of manhood and womanhood that go with country life and pursuits Dublin is in the melting-pot with the rest of Ircland, and for the time being it is full of townsmen

Once people were always buttouholing each other with obviously good stories, and, quite oblivious of the passer-by, roared over the good storics in a way to send you on your journey amused and exhibitated. Let the people are as pleasant as ever when you get to talk to them, as whimsical and fresh and inconsequent as ever, and the qualities that always made shopping in Dublin a gay adventure are there ready to come to the surface on a little encouragement There are very good Dublin hotels, and there is plenty of racing and other forms of sport to be had

The Anglo-Irish ascendancy in the pleasant old life was not anxious to see Ireland modernised It was always at least fifty years behind the time so far as modern conveniences went, but what did it matter in so pleasant a country?

Now one is less satisfied with the

Dublin cabs and the Dublin mud and the cavernous darl roads of the suburbs and the townships and the absence of electric light, because the good humour and the gaiety which made it all acceptable are under a cloud. Dublin and Ireland are shifting and changing, but the charm of the country and the people remains They are still the most unexpected people in the world

It was a very happy place as I remember it, the gayest city in Europe despite the poverty of many of its inhabitants-as Ircland was the gayest and gentlest country, good for men and women and horses and hunting and dincing and all kinds of diversionyet with an incomparably bad housing system and a poverty in which human dignity should have been eclipsed by all the laws, yet remained for the greater part, with kindness and cheerfulness and abundance of laughter and innocence of heart and hopefulness. The good things of life may have been only for a class, yet the country was a very happy one in which there was one common tie, that of good breeding, good nature and honest laughter

For the moment Dublin is shorn of her glories We know what has been, we do not know what is to be Let us not say with Wesley " Alas, that all this should have vanished like a dream!" Let us say rather with Grattan when he found that all his " Yet I dreams were laid in the dust do not give up the country I see her in a swoon, but she is not dead is on her lips a spirit of life and on lier cheek a glow of beauty"

## DUBLIN: A FOOT-NOTE

Situation On Dublin Bay, north of Wicklow Hills, at mouth of river Liffey Extensive docks and tidal basins are connected with various parts of the city by canals

Exterior—by sea to Communications Liverpool, Holyhead, Glasgow, etc Also four main line railway termini Interior—good electric tramway system in principal streets connecting with suburbs

Trade and Industry Principal trade

is in export of cattle and agricultural

produce Brewing porter (or stout) is an outstanding industry and silk poplin is made Other industries are biscuit-making, the manufacture of fertilisers and distilling

Dublin is the capital of the Irish Free State and contains the residence of the Governor-General and the Irish Parliament House A notable building is the Abbey Theatre, centre of the nationalist move-ment in drama and devoted exclusively to the production of plays Irish in character and origin

### LAST ALRIGA

# Land of the Great Equatorial Lakes

### by C. Lestock Reid

Author of The Zambert to his stem "

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Within they land her an al est ter was sent remiles in 31 mt if we include that I given if M raint pue hone with dithe Zambert, then hat continu no los than he wanted the Birth h Colonie of Kenna COST Leands Tineamylls (I fix th Wat German had Africal Na aline and the Loringuese Colons of Morambique -it may y the constraintly contricted as a unit in that it composes the creat it part of the Central Miscan Plateau formed by a trouscal on stal helt along the Indian Oc an. This cortal trip are in the extreme with if kenya where it meres, into the barren plains of In thank and along the Rosumanist in Tane nyska is narrow and presents a certain uniformity of character

#### Coast 1 Configuration

Along the seas edge bes an endless succession of sandy beaches and man grove swamps brok in by creeks and some fine natural harbours—Kulindini Tanga and Dires Saham in Tangangika Territory. Bira and Diagoa Bay in Movambique—and backed for the most part by low cord diffs behind which less the cortial plain generally fertile especidly along the river but oppressed by a damp beat very trying

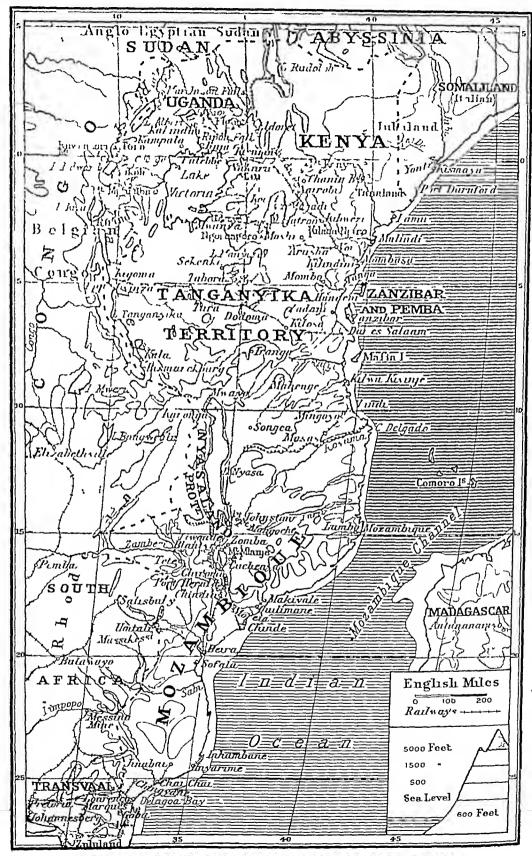
i Imperior Deboted to a another Indices the chalm to differ Iron from the task to the temperator the Lat Moon Pittor

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#### "Th Mount in al the Moon "

Of the latter Mount Killing Spatials to a Section 20 Mount for your which goes a name to the colonia are the last of the former the Livia more Rang, so mide long and running up to meanly 17,000 fect on the west to lead to I guida and the Mumbito mountains to achangement pool fect on the southern bertler are the most impressive.

Rusenzari and dit one of the most remantic ranges in the world. (u > d at with astoni hing accuracy centuries are in Prolems as the source of the Nile there half I gendary Mountains of the Moon" were only been red in 1880 by Stanley after many explorers had passed along their very base without realizing their existence owing to the mists which lie almost eternally along the summits. And mention should also be made of another mary flous mountain range-the Highland of the Crest Criters in Tankinyika Territors a jumble of valt extinct volcanoes of which only one Oldonyo-Lengal has been



PLATEAUX, PEAKS AND GREAT LAKES OF EAST AFRICA

EAST AFRICA

active within the memory of man. Kenya also has her great range in the Aberdares, while Nyasaland finds her highest point 9800 feet in the Mlanje Mountains a short isolated range rising with amaring abruptness from the plain.

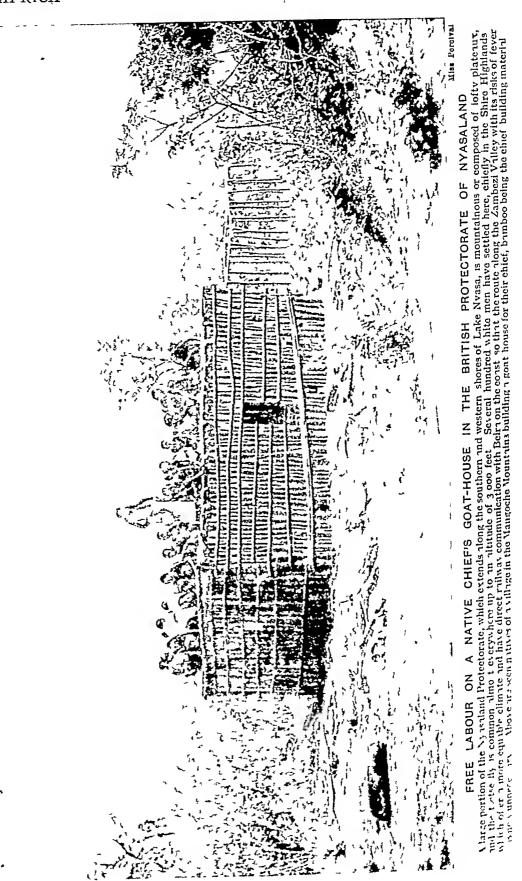
Curiously enough in all this country of nature on a gigantic scale there are with exception of the upper reaches of the Nile and the lower reaches of the Zambezl both described in other chapters, po rivers of first magnitude though this is not to say that there are no rivers which would be considered large in Europe. The Majutto for instance in Mozambique, is navigable for motor

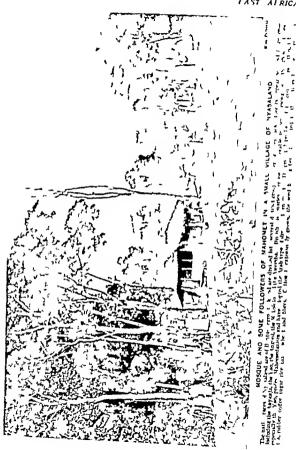
launches and small craft over 200 miles of its course and the Shre which flows from Lake Nyasa to the Zamben as far as Chiromo. The Rufiji in Tanganyika is large in the rainy season.

But the region makes up for the comparative smallness of its invers by the variety and vastiness of its lakes no area in the world contains so many and more than one-seventh of the whole area of Uganda alone is covered by water. Lake Victoria, as large as Ireland with 17 harbours capable of taking versels up to 1 200 tons. Lake Albert in Uganda Tanganyka 400 miles long by 50 wide a narrow ribbon miles long by 50 wide a narrow ribbon.



VILLAGE SCENE ON BANK OF THE UPPER SHIRE ABOVE LIWONDE. The Stern rev of the Nyashian Protectorst and Portugues East Africa forms the south coulted Law Nyas and a ray miles long. Osing to the decrease in the flow of water from the lake, then re it as became lower and averagion spectrum as far as Chromon sentency afficult. The chief etilization of its banks are Fort Johnston, Livond Chromon and Children.





EAST AFRICA 1694

of brackish water popularly supposed bottomless, Nyasa, the third large st lake m Africa . and beautiful Kivu are the most important But perhaps the most interesting are the Soda Takes Of these the best known is Magadi, an almost waterless lake of soda resembling a frozen pond in fantastic contrast to the terrific heat and the grim, extinct volcanoes which surround it and looking for all the world like a picture of the infernal Butnatron, farther south, is regions covered with water, a brilliant electricblue in colour shot with rose-pink streaks where thousands of flamingoes disport themselves in the shallows

All these are, of course, the aftermath of eruptions centuries ago and indeed much of the plateau bears evidence of volcanic action. Much of the soil is therefore volcanic, but there are extensive drift deposits of gravel, sand and clay and rich alluvial areas along the rivers, besides the familiar red soil

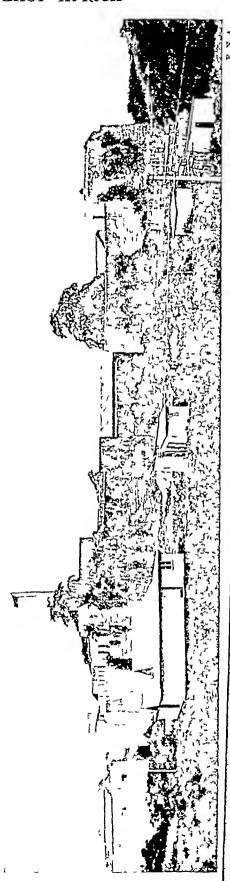
so common in the highlands. When well watered the country is almost everywhere fertile, and even in the arid districts much can be done by irrigation.

With all this variety of soil and altitude there is naturally a wide range of climate, but it falls roughly into two classes, the tropical climate of the lowlands and the temperate climate of the highlands. The former may be defined as a climate in which the European, if he wishes to remain healthy, must take precautions, not so much on account of the heat but because of the various tropical diseases which abound at low altitudes tsetse fly, for instance, carrier of the dreaded sleeping sickness, is rarely found above 3,500 feet, and malaria, though now spreading to the highlands, originates in low-lying swamps and marshes where mosquitoes can breed

In the highlands the climate is delightful and Europeans thrive, if they take the ordinary precautions



LOOKING DOWN THE RUA ARAUJO IN LOURENCO MARQUES
Lourenço Marques, on the western shore of Delagoa Bay, superseded the old town of Mozambique as the capital of Portuguese East Africa in 1907—Its harbour is considered one of the best in South Africa, and derives the bulk of its transport trade from the Transvaal—Rua Araujo is the principal business street and here land is reputed to have changed hands at £14 a square metre



months are during the rates according to the warmest period is just before

To turn for a moment to what be termed climatic freaks, especially in the Ruwenzori produces thunderstorms of violence, Mount Kenya, Ruwenzori have violent while the southern coasts of are sometimes visited by cyclones the Indian Ocean

Like the climate the with the altitude, and is greatly by the rains. Virtually the belongs to the region of which occupies the eastern tropical Africa in contrast, great forest lands of the west and At the end of the dry season there lands are reduced to the tinder with great areas bush-fires, and within a week of rains breaking new grass is up everywhere, elephant grass as high as twelve feet

and is situated on a coral island connected with the mainland by the Uganda by the Portuguese, has seen many bombardments and is now used as a prison

Z

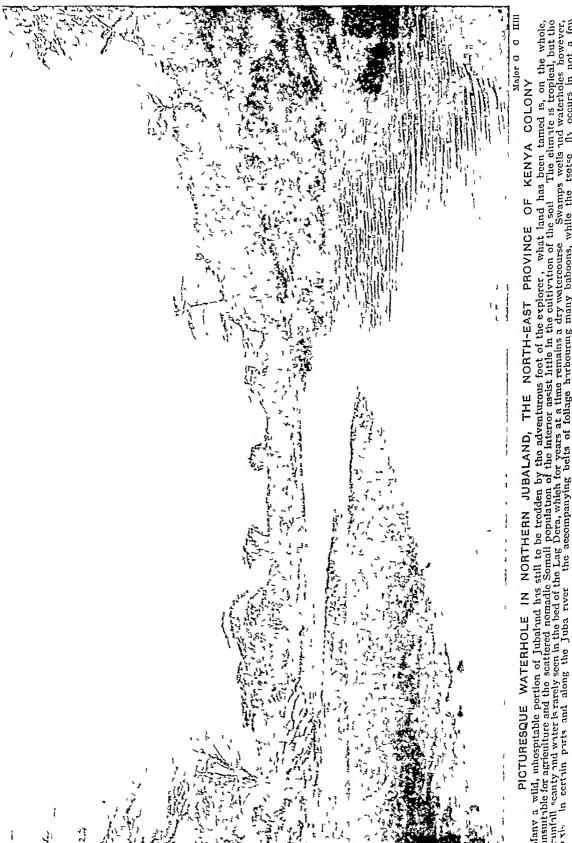
These variations are seasons the variations caused by the are permanént Along the and in some of the low-lying of the interior, the vegetation, natural and artificial, is purely this passes almost imperceptibly the typical grass country Central Africa, endless grass height and luxuriance according aridity or otherwise of the broken only by that most tree of Central Africa, the acacia, and above this again a temperate vegetation short grass and comfers, where fruits and flowers flourish.

Speaking generally, it cannot that this area is well the forest lands of Africa are into the Congo and Niger important forests are to be found the high mountain ranges. In for instance, the girdle forests Elgon, Mt Kenya and the the Man Forest are the most Uganda has densely forested

1697 FAST AFRICA



BNOW-CROWNED RUWENZORI CLAD IN EXUBERANT FOREST VEGETATION Anald deep and also I make their bleed forest the Resentancel these I bake a longet, of the Russe of the Secients, not in the sectors part. I the few De river of Uganda. Their term bayes abound in regetation of will tropic I be witness and assens the bacteria and internaven: critical interspensed with removable trees, there are animals and bleed of condettal artery.



Many a wild, inhospitable portion of Jubaland has still to be trodden by the adventurous foot of the explorer, what land has been tamed is, on the whole, unsuitable for agriculture and the scattered nomadic Somali population of the interior assist little in the cultivation of the soil. The climate is tropical, but the runfull scanty and water is rarely seen in the bed of the Lag Dera, which for years at a time remains a dry watercourse. Swamps wells and waterholes however, and along the Juba river the accompanying belts of foliage harbouring many baboons, while the tsetse fit occurs in not a few

the Rusenzori range some never yet penetrated by man Tanganyika has similar girdle forests on kilma Njaro and in Nyasaland the cypr so forests of the Mlanje plateau hould be noted

as for crops the most important if not at the moment at any rate in the near future is cotton Fren 1974 America uses more of her own cotton and accordingly there i an argent need for the development of cotton grown within the British Empire In Uganda where the government incourages the natives to grow cotton on their own plots, issuing seed and anding out instructors there are 120,000 acres under cultivation and the formun in Tanganyaka fortered the industry by similar methods which are being continged by their successors. In Nasa land, after mam, set lineks cotton growing is now well estable had but in Mozambique et can hardly be suid to have got beyond the experimental stage

### Profressive Hom Industries

In Kenya the chief industries are coffer and smal flax has had its ups and downs, and may eventually come into its own. The population is now bang fed on its own wheat and the production of sugar is increasing Dairying shows prospects of develop-In the native areas attention is being directed chiefly to the production of cotton and oil seeds. Coffee is also grown in Uganda, in the Kilima Njaro district and in Nyasaland but in the last named pride of place must be given to tobacco while the premier industry of Tanganyika mist before the Great War (and now recovering again) was the cultivation of sixal hemp In 1913 nearly a quarter of the total iand under cultivation was given up to sisal which was found to do well up to 3,000 feet, and one of the four German risal companies paid in dividends as much as 50 per cent.

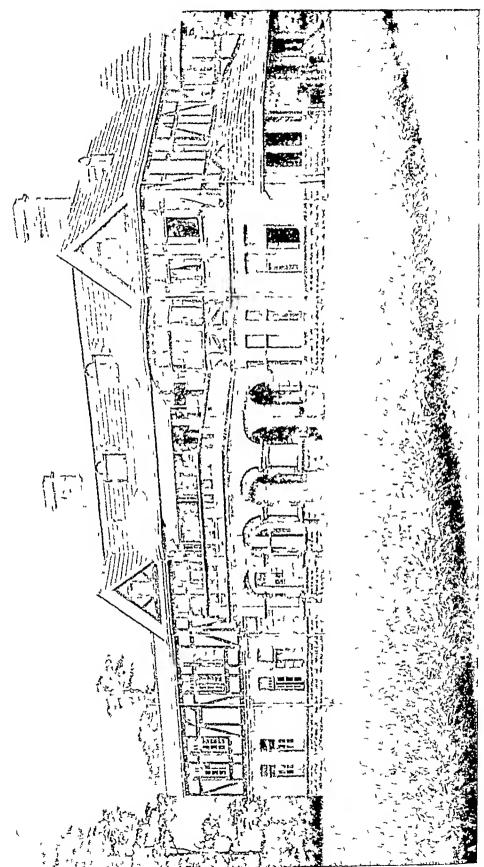
Mozambique has a range of agricul tural possibilities which includes almost every variety of tropical and subtropical product, with ample labour and good rainfall but it cannot be said that the Portuguese have made much use of their opportunities, their chief product being sugar which accounts for more than half the total value of exports

#### Potentialities for Stock Raising

At first sight the area with it rolling grass land would appear to be in ideal cattle country went in the teets, fly belt. Stock diseases neli as mid most phuro-pneumonia and Last Cast fever exact their tell but fortunat ly are amenable to control and treatment by scientific in thod, of moculation and dipoing. The glut in the world mark its prevents the development of an export trade in bed and beef product natives own large numbers of live stock which play an important part in their social system and largely form the basi of measuring wealth while possession thereof i generally a necessary qualification for entry into the marriageable state. To an merca ing degree meat and milk are being used by the natives for food purposes and in the case of the Masai tribe the blood of ox it is tapped from the live animal for use as food. In Kenya only do horses thritprogress is being made in the grading up of stock of native types with the use of sires of recognized European breeds, largely the result of initial efforts made and assistance rendered by the government through its experimental and stud farms.

#### Unrivalled sumbers I BM Game

Disease indescriminate shooting the onward march of civilization have greatly diminished the vast bords of wild animals which used to be found almost everywhere but even so there is no region in the world which possesses such numbers and variety of game. Elephant the largest of living animals and the most hunted for the sake of its ivory buffalo the most dangerous of all created things hippo in the lakes and rivers thuno not so universal but after the most function of the latest and rivers thuno not so universal but after the most function of the latest and rivers are the most function of the latest and rivers and rivers thuno not so universal but after the most function of the latest and riversal but all the latest and rive



Nairobi, the administrative capital of Lenya Colony, is a flourishing centre, situated on an elevated plateau, 5,450 feet above ser-level Lying on the Uganda rallroad, 330 miles from Mombasa, it was but a railway settlement in 1899, since which date the town has been raised on generous lines and 42 miles of road have been constructed, while the population is estimated at over 20 000 The town though still in course of construction, contains many buildings of pleasing appearance, including Government House which, together with the Civil Hospital, Nairobi Club, and several handsome residences, stand on a hill overlooking the town MODERN IN NAIROBI, A

Lake Manyara lion muscalled the king of beasts and his fereer coston the leopard hyents and jackals the scavengers of the wild rare animals seldom seen of man such as the okaps and the bengo rebra of sexel varieties anticlopes and graftles of nonumerable kinds from the prant dan I naturalist and the hunter but a source of revenue to the state so that the game is now everywhere strictly pessens I not only in reserves, generally situated in areas which or useless for other pur I see as for in time in the Rift Villay south of I ik. Maga h I in I lay may so grune herences.

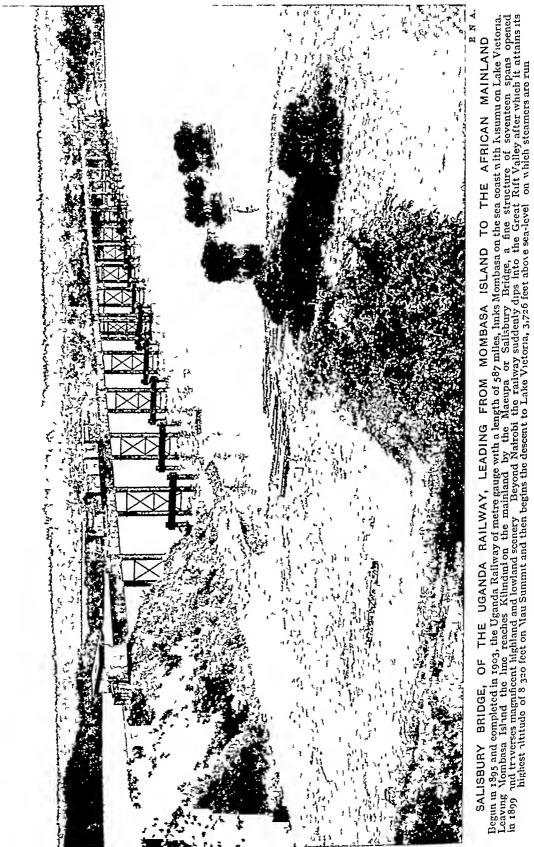


NATIVES OF UGANDA BRINDING SEED COTTON ACROSS LAKE KIOOA Cotton if the principal path crop of Uganda where it is kind platfol to option with the principal path crop of Uganda where it is kind platfol to option continuous ad ance and promises to become leading consonic adduting. The origination of a 2-y columnical to option bales of 400 IV assets of 400 IV asset

to the tiny dik-dik wild-dogs, wart hogs, giraffes, crocodiles and monkeys and a wide selection of birds are all to be found within its boundaries

Space does not permit of a review of all the good game countries" but some mention should be mad of the great crater of Ngorongoro in Tangan-pita, a vast natural game-pit some twelve miles in diameter the home of more than 50,000 head of game the blue wilde-beets predominating and of the teeming plains around Lake George in the Ruwenzon country All over the area under consideration the authorities have woken to the fact—and that none too soo—that the fautin is not only of interest to the

in sharp contrast to its wealth of Jauna East Africa as a whole cannot be said to be rich in minerals, though no doubt an exception will be found to a certain extent has been found already in Tanganyika besides the great gold mine of Sekenke on Iramba plateau other quartz reels have been discovered which should prove valuable and in the opinion of experts a conglomerate formation similar to the Rand will be found to exist. Mica also has been considerable worked and there are indications of oil. Mozambique too has mineral possi bilities-there are for instance numer ous veins of auriferous quartz in the region round Massikesu-though only a very small area has been geologically



surveyed. But in Near dand Teriods and Kinza the innertals are computed to the Talang needed, with the everythen of the apparently in share talk ingels of catherina of a lathundar lak Maruli which a paramoul cather of so, so ton.

The entir question fromm to and industry is in it infines as contain! with the la lily organized medians in A Lump and dands for us much ment on tran post, the meet sital need in Lat Moa to by In central with the fel can tion, most divir the area i unly ky in his my no it si waterway threads in the near futurconciling may be for with the Nik rouse Steamer 145 on the Ct t Lak lent tach ade a church mil anden kwłama while z 11 11 are rate so the different fel munication is In railways while are assett-wardfuletween Il Leands Railway running the infile first flows the Central Lanks in Tanganuska Timton, the Shire Highland Railman from Blantsy to Chirole at the Tymbers empected no 143 with third in the Trans Zamberra Lathaux

and the lines from Louren's Mirjues and Hern to Pritoria and Subburs to rectiscly alout exhault the list

I lograph lines are more frequent though the native pation for wioriament it asers is hinde at a their fictings in some 1 trust in 1N orthern Lyrind has a remarkably fine toleph in system.

Of town the most important it An far the unital of Kenta Kim the the mineral entre flend Itlanture and Zomt in Nicelat I and on the court. Minut. a. the citiway Ilat Morsan Itimonu of the Loanda Raile a built on a reland whi fill dt is the macnita nt larbour of Kilm him. Divers ham the will Hannol executed 1 factions had Moca Chind Beira and Liv. B. the Portuguese aget 1 d 1 s rem-Marines The last streeted in the north hore of Deligia Ris w. not green for it unleased upon but in rose the town warms was filled up and it now ompares well with other smil i the above the cost and possess lecture light trans theatres and macraticent rails vitation

#### FAST AFRICA CLOCKAPILICAL SUMMARY

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Cloud and I get I'm Ha scalls the climate i tropical with point it seasonal or durnal variation in temperature with ra ns about the period when the normd with its highest in the aky, with tropical hort period downpourings and a liability to intense storm. The vegetation is fundamentally tropical, with jungle and coastal mangrove awamps. On the higher ground the plateau, the rains are less the skies are le rer the mean annual tem perature is low and though seasonal variation in temperature is small the daily range i great wherever the clear night sky permits radiation—the peaks are mut hidden and sometimes now clad. The vegetation on the legh ground is so annah grassland the mountains are forest, girdled with upland pastures above the trees. (Cf Brazil) f m l One of the world gre to hunting ground for helphard deer of numerous kind hipper it ima and himboeron him nd he jast? Typed African disea et due t teste ils and other causes prevent to setse ils and of domeside animal and Lat Africa lacks the cattle of Queendand or South

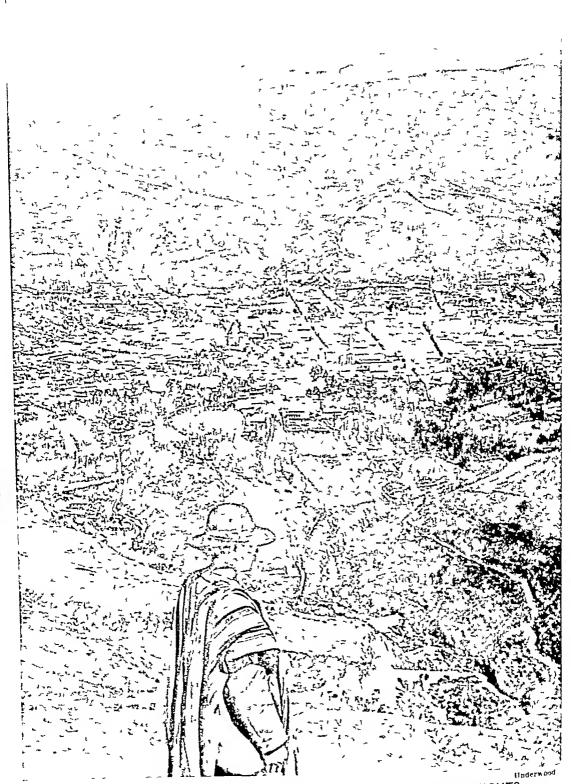
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Treatment Soda from L. Maga h the chief inheral Cotton (Cl. Nigeria Bibolesia and Queensland). Cottee (Ct. Nigeria Streatment).

liboriess and Quernsland.) Collec (Cf. Bra il.) Sical hemp sugar. Communications in Tran port facilities except for the few railways, depend on human porterage save where the liskes may be used. The whole area need road motor forms and notice care.

motor lorries and motor care

widook The question of the Hindu
settler and the need of transport services
are of immediate importance. These
difficulties armounted there remain the
problems of the fly-carried bleases and
the unprogree we and almost weless
native labourer. Hubber collect cotton
plantations, spread oner wid areas wait
for success iron the solution of these
important problems.



VALLEY OF QUITO ENCIRCLED BY TOWERING ANDINE HEIGHTS

An unforgettable sight is Quito seen from the slopes of the colosed snow capped volcanoes which overlood
this capital of I enador. Situated some ten miles south of the I quator, 0.350 feet above sea level,
the general appearance of the city is delightful in the extreme with its red tiled roofs and white walls
glistening in the sunshine against the mountain background of a majestic Cordillera of the Andes

# LCUADOR

# Andine Wonderland of Varying Climes

# by C R I nock

Author of It Anterantit America"

Bit patter it name from and they ch anyon the mall t South American states is In its in I its natural Latures, one of the mint interesting on the entirent trisc wal unlike may nor in a lex princy to see of the met turend is exemiain assent free in them will an arong of cord man arak s kances a til ter in clive culmination aline the propertial ninch terminating of in the Ligation Commer an approximate the ancient city. I (Fut Brocath their perpetual nemt 14 be little valleys in a region of a frant l pring whe e limits hang eq. I it the taking or in the animal with the all stor balms in the hit in dishe Cuavis river exhibit natur with the graceful llama of the ut lands or paramet

The regulate facts upon the Lacific cm t. where the comment extend furthest west into the wear. On the month and month out its neighbour is Colombia and on the with and south east Peru. The territors is thus of a triangular form, its lase on the coall its apex some 500 miles inland beyond the Andes, in the lorested region of the Amazon hain. The boundaries on almost every side have been in dispute and the area cannot be more than very approximately stated as 116,000 to 276,000 square mil s, depend ing upon the inclusion or otherwise of disputed t critories, which he mainly in the Amaron or Montaña region.

## Zonce of Diverse Climate

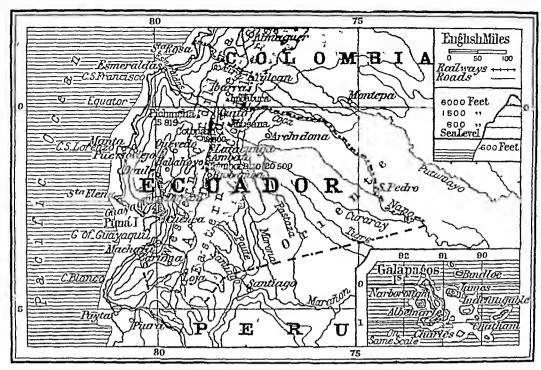
Leuador Is thus a land of three very dwerse topographical and climatic zones namely the Pacific scaboard a region of often meandering rivers watering tropical woodlands and plantations the Andes or Cerloll ran traver to ing to great talk hand treeled and medium that be the first full rank and the first full rank and first the last tell and pumperson of the Amazon Industries. We may consider the education in some letail

## Teperaphical In blues

The costal rate entitin min a modification of the cost lin is all and to miled long. Its permiguifial at it the Cosya myer which in fact it it do for a myer which in fact it it are upon the whell we term is to the continual. The loss to grandly listed to pread waigning it have broken by the pread to life Cosya pullinto which the river complete with the cloud of Final citis mouth.

The Current near yet in intractes the at note and institution between the Andes and the sea, the richest belt I traveal territors on the South American coa t, and with its inbutanes has an acreterate navieable knowle of more than 200 miles, serving the enema coffee and other plantations which form the principal source of native wealth and commerce. I iver craft of various kind from teamers to canoes traverse these waterways and there are enrous native sailing rafts which make alternate use of title current and wind in their journeys The seaport of Cuayaquil-It lies 800 miles south of Lanama and is the cluef harbour upon a scaloard 2 000 miles long-is situated 30 miles from the sea the river being in places tortuou narrow and subject to shoal ing and so not always aff irding plane sailing for the ocean liner which calls there on its journey from Panama to Callao and Valparaiso.

The principal affluents of the Guaya all of which enter above this point are



ECUADOR'S GIGANTIC CORDILLERA 'TWIXT PAMPA AND PACIFIC

the Daule or Bodegas, the Yaguachi or Clumbo, the Vinces or Quevado and the Caracas or Sapotal In the northern portion of the littoral the Esmeraldas is the principal river, followed by the Mira In these river valleys, especially that of the Guayas, the quaternary soil which has been brought down by the current is of great fertility, and has formed the coveted bancos or deposits, which are covered with cocoa-producing haciendas

Reaching now the uplands, whence these rivers have their rise, traversing often areas of dense woodland in the foothills, we remark the structure of the Cordilleran region The Andes of Ecuador consist of two main ranges, the western or Cordillera Occidental, and the eastern or Cordillera Real Between them is a tremendous valley, flanked on either hand by the great peaks or snow-covered volcanoes The principal among these are, on the east Cotopaxi, 19,600 feet, the highest active volcano in the world, with ten companions rang ing downwards to 15,000 feet, and on the west Chimborazo, 20,500 feet elevation, with seven companions ranging down to 14,000 feet Among these last

is Pichincha, the "boiling mountain," whose eruptive activities have rendered it an object of dread from time immemorial, but the summit may be reached on horseback, when it is said the rise and flow of the red-hot lava lake in the crater may be seen, and the excursion is a favourite one of the good people of Quito However, the great Cotopaxi with its unrivalled cone (reminiscent of Fujiyama), beautiful in its symmetry, with its unceasing smoke column, is the most destructive and has periodically devastated the countryside

The great valley dividing the two ranges forms the boundary between the ancient rocks of the eastern geological system and the Mesozoic beds of the the first-named being of western, otlier crystalline gneiss, mica and rocks, and the second of porphyritic, cretaceous formation and eruptive The two parallel ranges are joined by "nudos" or knots, an articulated sys tem forming well-defined "hoyas" or basins, which have their hydrographic outlet alternately to the Pacific and Amazon-Atlantic watersheds, a curious the three natural drainage system, principal basin-plateaux being those of

Quite Ambrito and Coence respectively with a general elevation above sea level of 0.5 or feet to , foo feet and continuing sear of the principal town of the tripuble.

Describer from these luch clevations we reach the Mentaña, as the for telegromel the Amazon Li medic i termed. It is migreat part a wakl and little-known territors, in some districts the large of tubes of more or less war. but its per nital econ into value is very considerable. The princinal more which tray rice it are Laute Mor un La taza Turre Curaray Name and (territorially disputed) the Putumayo all with num-rous branches These naces are named le in the aretegat for many hundreds of miles in mall teamer and canor and falling into the Amazon provide valuable communication with the out ide widdle

The climate condition of Lender are extendly varied the result largely of difference of the atom. All the climate zero of the carth may be payed by going up from the cost to the mountain summit. However, the rare changes the to other causes. The large case of South America south of the Equator 1 perially larger and rainless except in the atterne south.

The arights it a result partly of the teads off hor winds and partly of the flort of the Antartic of Leruvain current of the Antartic of Leruvain current of the Antartic of Leruvain the flowing up the coal textracting the humblit from the Sailbrer. The lift that the southern part of the Lerudorian litteral is drabbe that of Leru but not so the authority of the Continent turn the current award and so within the northern litteral librer to a laws.



HEADWATERS OF A RIVER IN A HIGHLAND REGION OF ECUADOR.

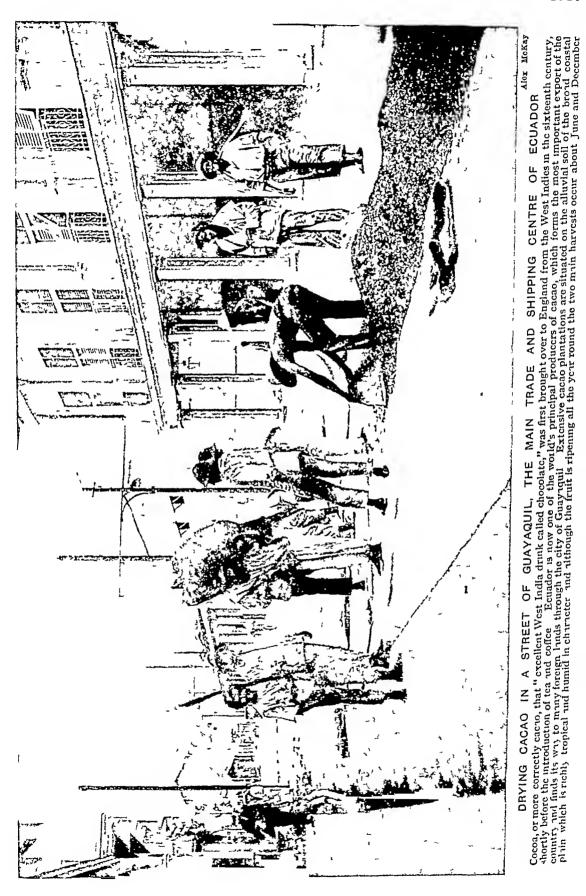
I the rigs its moustain at tern which its crees Ecuadory to unservoin or en, including several of the rigids. Officers of the Annanoa, An unspreadled arter to me inflicent servery! in Levering this they provid toperdown structure of this land. I contrasts towering, minist coverlook deep gavers, scoop-full dyean box. tropical forests and duraren steppes alternat with feet be liep.

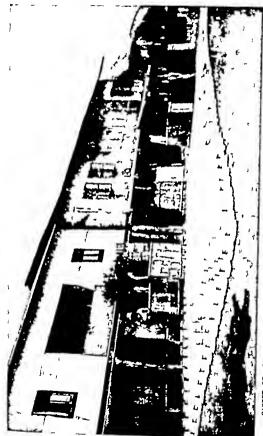


rel andr



POLING UP STREAM ON THE PROTURESQUE DARAMOYO RIVER brown thank the factor and toward the transfer of the trans







Underwood

NATIVES OF ECUADOR COLLECTING SNOW NEAR THE EQUATOR

The valley of Quito is surrounded by numerous volcanoes, no fewer than twenty lofty peaks can be
counted from the city, several of them rising far above the snowline. One of these, Pichincha, or the
"boiling mountain," about 15,910 feet high, is notable for its perilous proximity to the capital
which in bygone days its destructive eruption covered three feet deep with ashes and stones

rainfall with accompanying denser vegetation, and often lined with mangrove swamps

The heaviest rainfall is in February and March The temperature in Guayaquil is at times extremely sultry, the highest mean is, however, given at 76° or 80° F, in the months above mentioned, and the general range from 66° to 95° There are often fresh breezes from the sea to temper the heat. Inland, few meteorological observations have been regularly taken, but it has been found that the temperature falls in proportion with elevation at the rate of 1° F for every 330 feet, and in

Quito the visitor will at times be complaining of the cold The mean annual temperature here is given as 55° to 59° F, with a diurnal variation of 10°

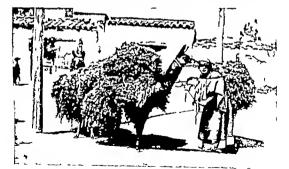
In the Oriente or Montaña the heat often becomes oppressive, but there is a wide diurnal variation. The seasons in general are divided into "invierno," ramy or winter, and "verano," dry or summer, the latter from July to December. In Guayaquil yellow fever has been stamped out, largely as a result of the influence of Panama, but malaria is a troublesome affection generally upon the coast, and indeed elsewhere. The uplands are in general healthy, or at

1713 ECUADOR

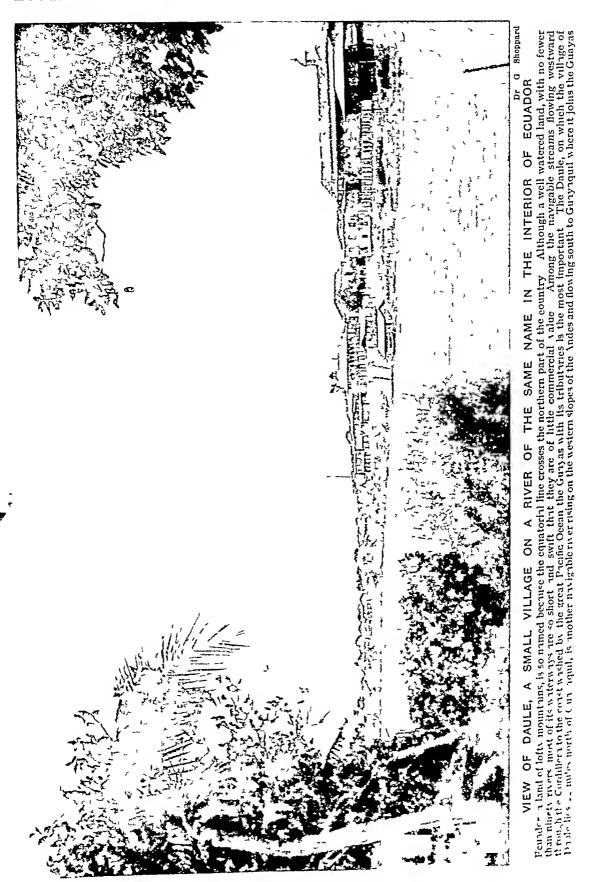
least as regards natural conditions. The natural vegetation of Leuador follows in species upon the orographical and climatic variations. Upon the litteral the prominent feature is the sombre manglares or mangrove thickets which clothe the shores, and whose timber is of economic value. The coco-palm affords a graceful relief and flourishing best on the salty soil near the sea, nevertheless grows up to the foot hills, but is very little cultivated artifi cially notwithstanding the commercial value of its products. The algarrobo yields valuable timber as do the chony and the roble, whilst the great bombax ceibos yields a vegetable wool. The tamarind is one of the finest trees. Most of the trees of the littoral are decidnous and so the forests of this zone an, largely naked in winter. The toquilla palm yields the leaf fibre for the famous

Panama hats of Ecuador whose making is a remarkable Indigenous art. Most valuable commercially is the cacao or cocoa tree while bananas form a considerable article of trade. Midway up the western forested slopes the cinchona or quinine shrub flourishes and up to 10 000 feet these forests are rich in flowering shrubs, as also in fuch sias, mimosas, lobelias gloxinias whose flowers beautify their virgin woods. Then the palms and other subtronical plant life disappear as we enter upon the colder uplands, where the cactl floursh and low shrubs in the rayines. until the sterile uplands or paramos unfold to the view Crossing the Andes and descending to the Amazon region leaving behind extensive pajonales of the valuable natural fockler of the ichu grass, we encounter the belt of cinnamon bearing shrubs, or cancilla with many species of trees as enumerated upon the western slopes while the Brazilian mahocany also occurs.

The indigenous fauna has a wisk, range many species of monkeys and the puma, Jaguar a beautiful for, a bear the tapir—the largest indigenous mammal the peccary the lanna—the only native ruminant and domestic animal while there are also alligators, anacondas and turtle. Bright miumaged birds in the trousal zones are plumaged birds in the trousal zones are



MUCH VALUED PACK ANIMAL OF THE ECUADORIAN INDIAN The street of Quite present arriver of life, for among the population of nearly occoron may race are represented. The Indian element may be removed less and bright proachor, which lend much animation to the scess, contrasts triking few middled less in imported garments of fathonship of the contrast o





in contrast with the sad-coloured specimens of the upland ornithology

In mineral wealth, as far as mining is concerned. Ecuador must be described as being poor Gold exists at Zaruma. near the coast, and has been extensively mined in that particular locality, and elsewhere there are some small placer washings Many metalliferous minerals exist, but not in commercial quantities, but the petroleum fields of the coast are of some considerable importance, as on the Santa Elena peninsula, and these are exploited by a British company

The industrial life of the republic is comparatively little developed. cocoa and other plantations on the coast and the pastoral industries of sheep and eattle rearing of the uplands forming with forestal pursuits, the primary occupations The principal articles of export are cocoa, coffee, tagua, rubber, "Panama" and other straw hats, bananas and other fruits, eane and timber, hides and a little gold

The rate of pay of the workers in town or country is in general very low, a result in large degree of the relative poverty of the country, but there is no hard or fast colour line A further barrier to the more efficient development of the country is the lack of extensive railways and roads The Quito-Guayaquil Railway is a valuable means of eommunication between the seaport and the uplands and the capital The line is 200 miles in length, with a ferry across the river from Duran to Guayaguil

The principal towns of Ecuador are, in order of population, Guayaquil, with about 100,000, Quito, the eapital, with perhaps 80,000, Cuenea, Riobamba and Latacunga, given respectively as of 70,000, 50,000, and 40,000 approxi-Ambato, Manta, Esmeraldas and the various capital towns of the 18 provinces are all important eentres of population, which for the whole country is given as about 2,000,000, any exact number being impossible in the absence of reliable estimates

The city of Guayaquil extends for several miles along the water front, presenting a handsome appearance from the steamer, and is a busy and expanding centre Quito, removed by elevation from an active industrial life, presents many pleasing topographical and historical features

The Galapagos Islands, which belong to Ecuador he upon the Equator, nearly 600 miles from the coast There are five large islands, the whole having an area of about 2,870 square miles, and they are remarkable for the giant tortoises or galapagos, found nowhere else in the world except in the Mascarene Islands in the Indian Ocean The species is, however, in danger of extinction by reason of the ruthless destruction by hunters On Charles Island there is a small eolony of settlers, and a penal station on another The climate is one of the healthiest in the world, but communication with the mainland is infrequent

#### **ECUADOR** GEOGRAPHICAL SUMMARY

Natural Divisions East, Oriente, low-lands of the Upper Amazon, middle, Andes, twin chains East and West Cordillera with the elevated longitudinal valley between, west, littoral, steep

coastal edge leading to deep water
Climate and Vegetation Throughout the tropical temperature effects (1) small annual variation between the dry and wet seasons, (11) small daily variation between day and night Mean annual temperatures depend on elevation, 80° F on the coast, 55° F in the longitudinal valley. The coast tends to be and the heights experience tropical rains Vegetation occurs in belts due to the elevation

Communications Waterways to the navigable Amazon in the east Rulway and road in the elevated longitudinal valley (Cf Chile) Coastal steamers for the littoral

Cocoa on the alluvial flats of Products the coastal streams Panama hats,

and petroleum

Outlook As in the case of Bolivia the future rests with the development of the natural resources by foreign capitalists, but Ecuador lacks the attraction of large deposits of payable minerals The cocoa trade competes with that of the West African islands (See Guinea Lands)

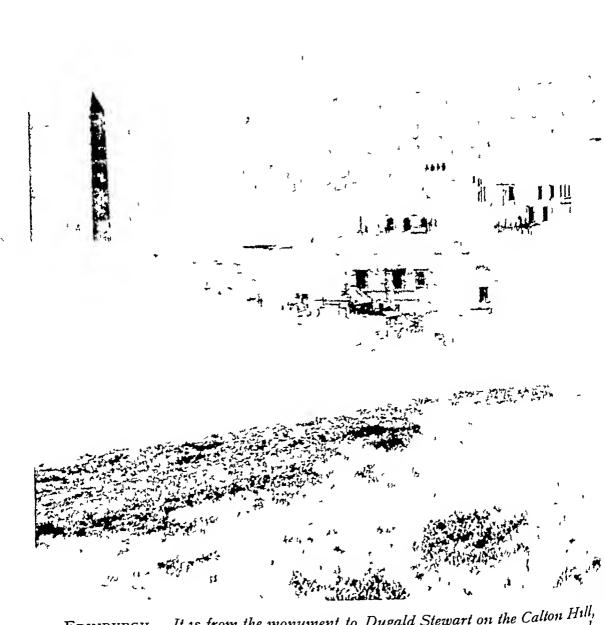


ECUADOR Perilously near the capital Mount Pickincha 15,910 feet high is one of twenty volcanic peaks that can be consided from Quito

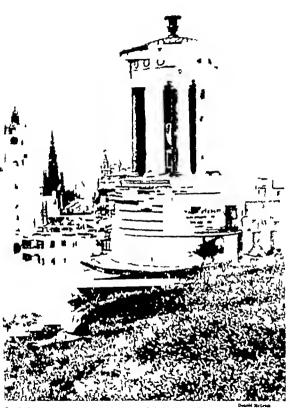




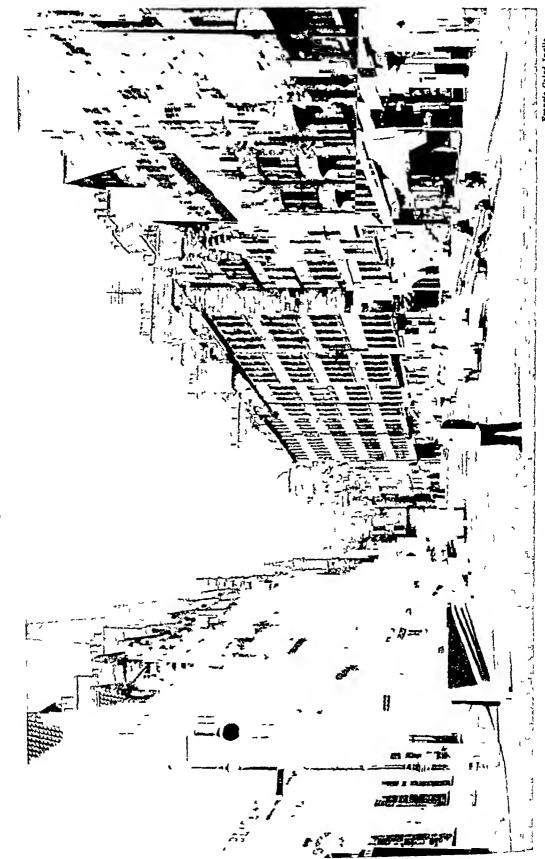
EDINBURGII. No capital in Europe has a finer thoroughfars than Princis Street From the single row of some buildings on its north side the vices of the Castle and Old Town across the gardens are superb



Edinburgh It is from the monument to Dugald Stewart on the Calton Hill, seen in the opposite page, that the finest view of Edinburgh is to be obtained 1720



On the left against the sky are the spires of the Tolbooth Church and the Castle here on the right the North British Hotel and the Scott Monument hold the eye 1721



In the Lawnmarket, this portion of the long High Street that winds downward from the Castle to Holyrood, the cloth-sellers of Edinburgh formerly had their booths EDINBURGH



od is steeped in the flamour of romance. Only the rooftess nare of the Abber ( remains and of the original palace the old tower for ever associated with Guern



EDINBURGH Here by the west porch of S Giles' Cathedral, Scotland's grown-surmounted, history-laden shrine, rests the Heart of Midlothian

# **EDINBURGH**

# Scotland's Crag-throned Capital

# by W k Dickson, LLD

Keeper of the Advocates Library Edinburgh

CORES of volumes have been written about Edinburgh but the unspie interest and charm of the city have perhaps never been better expressed than by John Cibson Lockhart Scott's son in-law in his well-known sketches, "Peter's Letters to Jifis Kinfolk," published in 1819.

"Here" says Peter Morris, " is the capital of an ancient independent and heroic nation abounding in buildings ennobled by the memory of Illustrious inhalstants in the old times, and illustnous deeds of good and evil and in others which bereafter will be reverenced by posterity for the sake of those that inhabit them now. Above all, here is all the sublimity of situation and scenery-mountains near and after offrocks and glens-and the wa fixelf almost within hearing of its waves. I know no city where the lofty feelings generated by the idea of antiquity and the multitude of human beings are so much swelled and improved by the admixture of those other lofty perhaps vet lofter feelings, which arise from the contemplation of free and spacious nature herself. Edinburgh even were its population as great as that of London could never be merely a city. Here the proudest of palaces must be content to catch the shadows of mountains, and the grandest of fortresses to appear like the dwellings of pygmies, perched on the very bulwarks of creation.

## Status of the Royal Burgle

The city and royal burgh of Edinburgh the ancient capital of Scotland, her on the south shore of the Firth of Forth between the Pentland Hills and the sea, 396 miles north of London. Although no longer a political capital

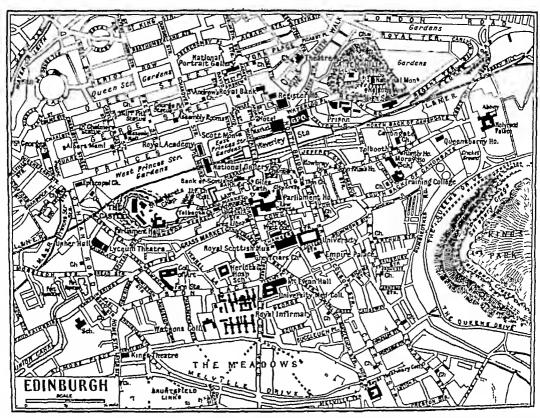
it remains the reat of the Scottish supreme court of the chief government offices and of a famous university and instant of Scottish legal banking and in urrace business and the scene of much calorational and professional activity. Of late years it has been an exact and myal residence. It the census of 19.1 the population was 4 to 51.

### Modern Papanelon Seaward

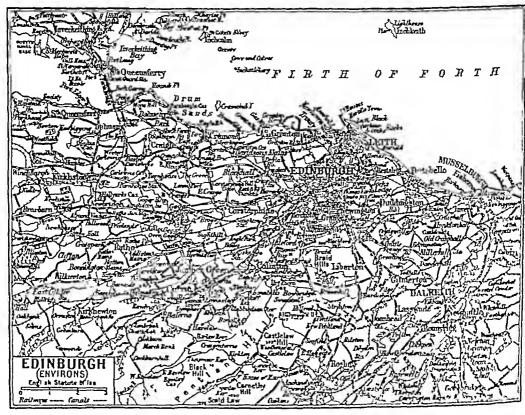
After the Creat War Lahnburgh opened a new clapter in her havors In 1920 a Munkepal l'Atension Act great) enlarged the territory of the entywhich now includes practically the whole sea front of Mullorhian the histone port of Leith has been annexed and a fresh stort has been made along many lines of munkepal activity.

Nowadays there are really four Edinburghs. There is the Old Town the historic city of the Jameses and of Mary Stuart piled along the rudge from the easile to Holyrrod the New Town covering the northern solopes the southern suburbs, and the wide extent of Greater Edinburgh sit relong from the sea to the north to the Pentland on the south and from Cramond on the west almost to Inverse, on the east

The Old Town like other medieval towns grew up at the foot of the Castle The Rock of Eduhburgh has been a place of strength for more than a thousand years, probably since long before Edwin of Northumbria gave it his name 1 300 years ago. Since the eleventh century it has been included in the kingdom of Scotland. The oldest building in Edinburgh is in the Castle—the Chapel of S. Hurgaret Queen of Scotland, who dued there in 1003. Within its walls,



INNER EDINBURGH WITH THE CASTLE AND OLD TOWN



EDINBURGH, ITS ENVIRONS, COMMUNICATIONS AND SEABOARD

too are the ancest Lathament Hall field test risk, and the recent in which are legal the Sectis Krissen, Septimar 1 so and othe "His some of Sect hand." It built ment command an extensive two lithes cuts the wall of art the field are and the brant Higherit! Franch to north and with. From end to end the treet is full of memories.

As two walk Josenfron the Castle you you the Latinament Horse where sat the off Seen. I takes where Brassfell disjense Ljusts, and Walter Seett walked the first the III art of Vick than the six of the 31.7 di oith from which the six of the 31.7 di oith from which



NOBLE PILE OF A GREAT SCOTTISH PUBLIC SCHOOL

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tal The first disconsistent with growing 1 to be and excessional to

tal the land the control of the processional to the control of t

Old I Imburgh crowns the radge which I give from the rat side of the Ca tle down to Holyrrod. Confined within the Flodden Wall built in the statenth century the town had no room to expand and houses were built of an immense beight—still a characteristic feature of the Old Town houses even when of modern erection. Along the top of the radge runs the street which is known in different parts of its length as the Lawimarket the High Street and the Canongate—the "Royal Mile"—the backbone of the town from which man, wynd and "closes"

Porteous was drapped to he doom. S. Ciles where know preached and where Jenny Geddes threw her stool at the Dean's head the City or Mercat Cross. John knows house and Moray House with the balcony from which Argyll looked down upon his fallen enemy Montrose on his way to death. Then you reach Holymod itself lying under the shadow of Athur's Seat the very focus of formance, the ruined Abbey Church, and the Roy all a laice which has seen the brilliant court of James 11 the tragedy of Mary, and the brief triumph of the White Rose in 1728.

**EDINBURGH** 



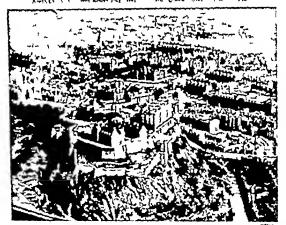
WITHIN THE QUADRANGLE OF OLD UNIVERSITY BUILDINGS
I'dinburgh University's chief buildings stand on the site of the old Kirk o' Field and date from 17°?
This is the entrance of the old university buildings viewed from within the quadrangle, on the other side of the arches is South Bridge, here the various branches of the Arts have their sent the famous medical school being quartered in a building farther south

The "Royal Mile," however, is not only a place of memories. It is still a prominent centre of Scottish life. The Castle is still a military station and once a month, when the occupying detachment is relieved there is on the I splanade recremoned guard mounting, with initiary music and pageautry, a poy to the inhabitants. Within its wills stands the Scottish National War

Memorial The Purhament House is still the sent of the Courts of Session and of Justiciary. In the Parliament Square are situated the chief government offices, and the adjacent Advocates Library, which dates from the day of Charles H., is in course of reconstituting as a modern National Library. The City Chambers house a very enterprise to civic government. Holyrood is to char

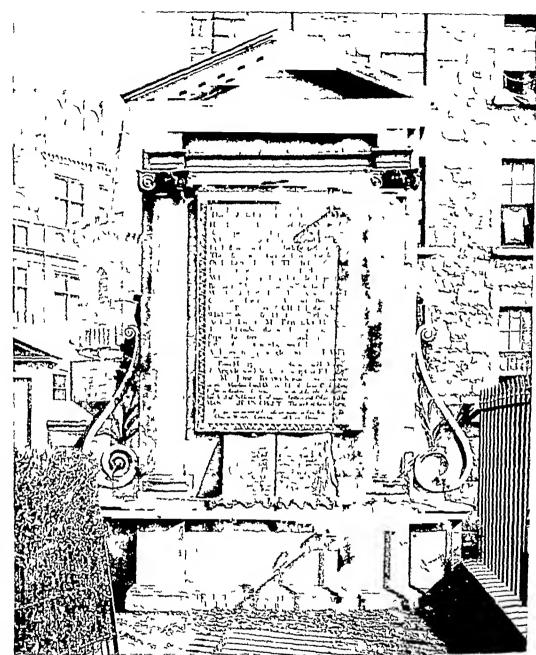


BOLID FACESTONE HOUSES IN CHARLOTTE SOURTE 13 July Holes (mal) of longer than the field the found of the part क्षत्र क्षत् विकास क्षत्र It drutel de Him Hennie 3-14 5 1mg 4 9 8 8 172 nd Dava Imi



FROM ABOVE THE BATTLEMENTED CASTLE HILL

This is principally the control to t



Donald McLeich

TRAGIC MONUMENT OF MARTYRED COVENANTERS

Greyfriars Churchyard, an oasis of peace amid the bustle of the city, lies just to the south west of the Grassmarket, and contains the double church of Old and New Greyfriars. It was in this churchyard that the Solemn League and Covenant was signed and here, too, is the Martyrs' Monument commemorating the 18,000 Covenanters executed in Edinburgh between 1661 and 1688

more of a royal residence than it has been for centuries. It has been greatly improved, within and without, and King George has stayed there time and again, not as a visiting stranger, but as the King of Scots.

The Canongate, once the court quarter of Edinburgh, has been described as "a slum flanked by breweries" There

is too much truth in the description. The pleasant gardens sloping to the sun, which in seventeenth century pictures one sees behind the Canongate houses, have vanished, washing flutters at windows adorned with coats of arms and frowsy women gossip at doors where once great ladies stepped out of sedan chairs. But there is some hope for the

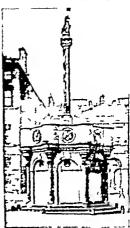
luture. Several historic lories have been reciucal and turned to public uses. Il history I louse. J. In . Knows. House Moray. Il race (now a training college) and Huntly Home which his been purche adha to city. The whole quarter may one day be a fermed from hundi or and may again become a futting environment for a long spalace.

Mong the north a leef the OLI Town runs a leep vall y formerly the North Loch "which was drained in 1743, and now occupied by Princes Street Cardens and In the log ugh Waverh Station. On the low if the north of the valley lies the North Town the Imanes and residential centre of the Imanes and residential centre of the internal.

The New Town originally laid out in the architect James Crass, dates from the latter half of the eighteenth century. The North Bridge which



EDINBURGH'S STATUE TO A DOG Candenater' Row leads round Greyfrian Churchyard, and has this monument t Greyfrian Bobby which ill gened for fouriern years near it master' gra-

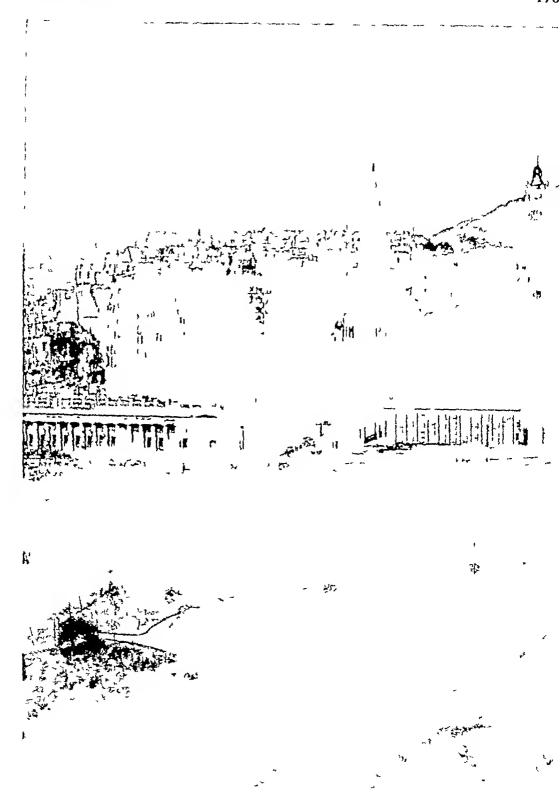


SITE OF ROYAL PROCLAMATIONS

J. P. diamond Square J. the Mirc t. Cris
whence Koyal prix I mat m. are m. le. The
tracture, bode is an act rectoration,
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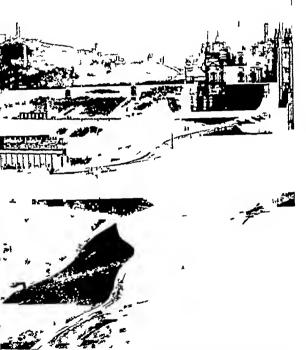
spans the valley was completed in 177 although rebuilt in 1897 and by the end of the century Princes Street George Street Queen Street S Andrew Quare and Charlotte Square lad been built. The essential feature of modern Edinburgh is the lamous terrace of Princes Street

Princes Street runs for about threequarters of a mile along the line of the old Lang Dykes. On the north side it is now a modern street of clubs and lottle slopes and offices. An early proposal to build a south side way happily nipped in the bud and the street looks out across the valley to a noble prospect of the Castle and the towering roofs and spires of the Old Town with Arthur's Seat in the distance—perhaps the finest city landscape in all Europe.

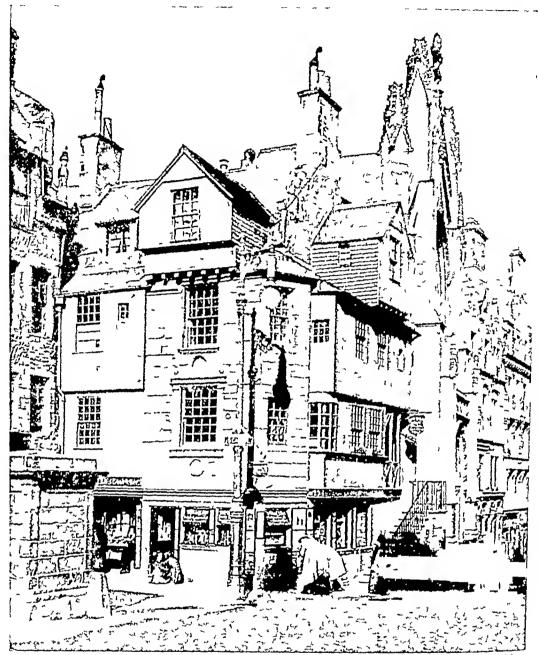


SPLENDID PANORAMA OVER THE CENTRE OF THE MODERN ATHENS"—"Stately Edinburgh, throned in crags"—so wrote Wordsworth, and from the heights that girdle the fair city round, a thousand varying views of unequalled beauty may be had. Here we are standing on the slopes of the Castle and looking eastward towards Calton Hill. Down the centre runs the railway into the vast expanse of Waverly Station, with the National Gallery above the tunnel.

1733 EDINBURGII



FROM THE SLOPES OF THE CASTLE TO TOWER-CROWNED CALTON HILL Across the chairs the street called The Mossed clambs from Pricors Street, with its gardens and the Sorti Monascont, towards the Bank of Sociation on the settrees right. Troe between the North Britads Station Hotal (with the clock tower) and the Post Office, North Bridge spain the walley; and claims Galo Chage to Callion fill with the observatory and its unknowled replace of the Perthemon



Donald McLeish

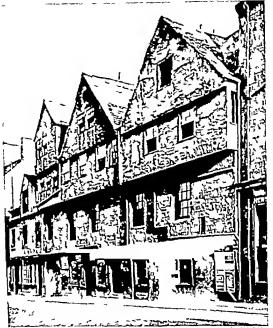
## WHERE JOHN KNOX RESIDED AT THE NETHERBOW

John Knox's house is in High Street almost at the Netherbow, site of the old barbican that used to separate Edinburgh proper from the Canongate There is some doubt whether knox ever owned the house, but he undoubtedly resided in it for a few years Hereabouts were many delightful houses until the Town Council Improvement Scheme removed them this, luckily was saved

In a way it is rather like Piccadilly, with the clubs and hotels on one side and the gardens on the other—

Shops palaces bustle and breeze
The whirring of wheels and the murmur
of trees

The clubs and hotels are commonplace enough, but Princes Street contains some notable buildings The beautiful old Register House, the Scottish Record Office, is a masterpiece of Robert Adam's The Gothic Scott Monument conspicuously commemorates Edinburgh's most famous son The classic buildings of the Royal Academy and the National Gallery, planted in the centre of the valley, combine with the Doric columns of the National Monument on the



HOME OF VANISHED COURTLY SPLENDOUR

Detraid MeLeich

The Carpengate deriver it is to receive the beautiful property required by expension or subthy founded by the George Regular to a control to the beautiful property of the cases frequent of the control to the control

Calton Hill to suggest the note of the Modern Athers."

Princes Street is the shopping centre of Edinburgh and the popular promenade. Scotts child friend Manjorde Fleming— Pet Marjorlo —described the crowd of the early nineteenth century with her usual felicity Queen Street is a very gay one and so is

Princes Street for all the lads and laises besides bucks and beggars, parade there." The modern Edinburgh buck has not varied greatly from type since Meg Dods described his predecessors as a wheen writers clerks and physic students.

There is a street corner in George Street at its intersection with Castle

Street, which may be taken as a focus of the characteristic interests of modern Edinburgh You are in the very middle of the business world, on the doorstep of the office of the London and Liverpool and Globe Insurance Company, and close to the principal branch of the Bank of Scotland Just round the corner is 39 Castle Street, the house where Walter Scott lived for twenty-six Across the street is the statue vears of Dr Chalmers Looking east you can see the tall monument of Henry Dundas, "the Pharos of Scotland," the friend and colleague of Mr Pitt, and the statues of Pitt himself and of George IV, the portico of the Assembly Rooms where Edinburgh Society has danced for 140 years, and S Andrew's Church, which was the scene of the Disruption of the Church of Scotland in 1843 west lies Charlotte Square, with its fine Adam façades, and the dome of S George's Church against the sky To the south the Castle looks down from

its rock, out of the Middle Ages, and to the north you can see the Fifeshire hills and the Firth of Forth, and "ships tacking for the Baltic"

Incidentally, there is a great deal of good Adam work in the older part of the New Town—house fronts with delicately designed pilasters and cornices, doorways, ceilings and mantelpieces. In the days of the Gothic revival Ruskin came down to Edinburgh and lectured the citizens on the imquity of erecting classic buildings. To day Victorian Gothic lias gone out of fashion, like the crinoline, and the Georgians have come to their own again.

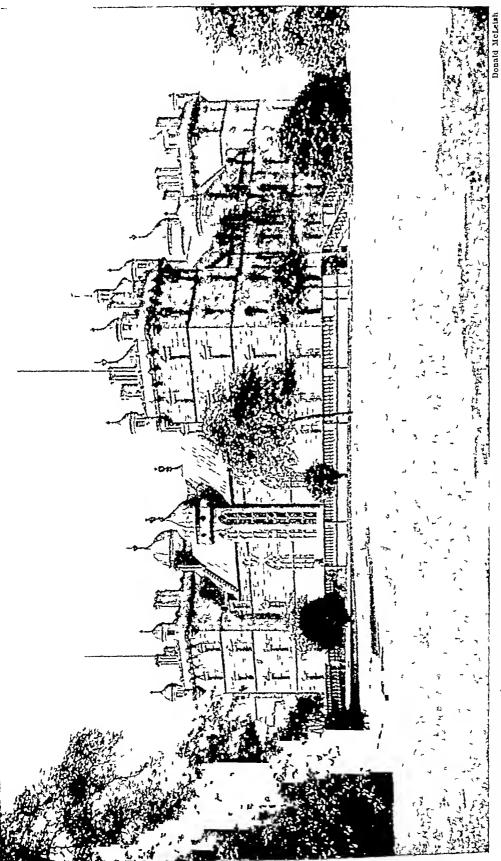
To the north and west he the old residential quarters, Moray Place, Ainshe Place, Heriot Row, Royal Circus—wide streets and squares of solid freestone houses with spacious, hospitable diningrooms and goodly cellars, houses built for a pleasant and prosperous society War and a changing world have affected Edinburgh like other places and not a



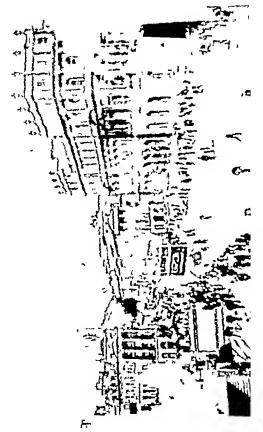
- VESTIGES OF THE CROWDED TOWN OF OTHER DAYS
In S Mary's Street once called S Mary's Wynd, leading southwards from the Netherbow, is the
White Horse Close These "closes" are a feature of old Edinburgh, once the sites of the
town houses of the wealthy, they are now for the most part squalid and in disrepair In
White Horse Close stood the inn of the same name where Johnson lodged in 1773

t 17 finspipon





Herlot's Hospital is one of the handsomest memorials of Jacobean times in Edinburgh It stands in its own grounds between the Grassmarket and Liuriston Place, and is considered an extremely good day school, accommodating about 180 boys It has changed its chiracter, however, since the days of its foundation, in 1628, then it was a home for the maintenance of fatherless and destitute children It was built and endowed by the goldsmith and banker to James VI (James I of England) George Heriot—" Jingling Geordic" as eight from his enormous accumulation of each OLD TOWN THE HEART T T T T AMID TREES AND LAWNS HERIOT'S HOSPITAL



James VI, "for the education, nursing and upbringing of youth, being pur orphans and fatherless children of decayet burgesses and freemen of the burgh, destitute and left without means " His charity has prospered exceedingly, and has thrown out many educational branches Close to the grounds of Heriot's Hospital lie the Greyfriars Church and Churchyard, where in 1638 the National Covenant was signed, and where many famous Scots he buried Tarther west is the modern College of Art George Square, where Scott spent his boylood, is largely occupied by halls and class-rooms connected with the university

# Edinburgh Trebles Its Extent

Farther to the south is a large suburb—a district of villas and tenements, not differing greatly from suburban districts elsewhere, except in its stone-built houses and its views of Arthur's Seat, Blackford Hill, Braid Hills and the Pentlands

By the Act of 1920 Edinburgh trebled its extent—It now includes the port of Leith—annexed somewhat against her will—the chief Scottish port of entry from Germany and the Baltic, Portobello, Newhaven and the Lothian shore as far as Cramond, the old Roman station of Alaterva—On the landward side it includes Corstorphine, Colinton and Swanston, made famous by Robert Louis Stevenson, the northern end of the Pentlands, Liberton and Gilmerton—a stretch of country rich in natural beauty and in story

## Ideals and Realization

In the words of a recent official writer, "a long step has been taken towards the realization of the ideal, contemplated in the closing passages of the report, dated February, 1919, by the Town Clerk, Mr Grierson—that of one Great Municipality, representing the whole Edinburgh area, drawing its inspiration and strength from a population of half a million—half a million people in virtual possession of an

unrivalled seaboard awaiting exploitation, with the nucleus of a splendid suite of docks through which to carry an ever-increasing trade with the Continent and with an extensive coalfield at their very door'"

A notable feature of Greater Edinburgh is the large new group of cavalry and infantry barracks at Redford, near Colinton, which make the town an important military station and keep it in touch with the fighting services The Edinburgh burghers have always been a warlike race. All the magistrates and able-bodied citizens followed James IV to Flodden They turned out under the "Blue Blanket," the banner of the Trades, to resist Hertford's invasion in 1544, and in 1666, when the Westland Whigs threatened the city, they found "every advocate in his banddeers" In the days of the old French War, and again in Victorian times, Edinburgh was a great centre of Volunteering The Queen's Edinburgh Rifle Volunteer Brigade stood in the front rank of the Volunteer movement

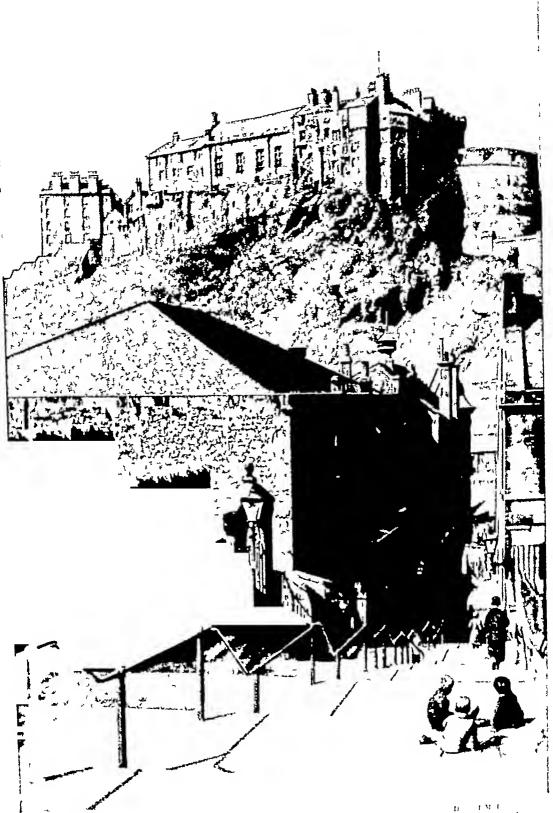
# A Repetition in History

When the Great War came, Edinburgh did her duty The city and county furnished some twenty battalions of infantry and nine batteries of artillery, about 25,000 men in all, to the armies of the King Public buildings were turned into hospitals, and local in-The Battle dustries into war factories Cruiser Squadron was based on Rosyth, and the Thirteenth Destroyer Flotilla, the spear-head of the Fleet, lay at Port Edgar It was from under the Forth Bridge that Beatty sailed for the Dogger Bank and for Jutland, and it was off Inchkeith that the German fleet first anchored after the surrender memorable night, April 2, 1916, the city, still destitute of aircraft defence, was heavily bombarded by Zeppelins, much damage was done, and lives were If it was meant to create a panic lost As one good the raid was a failure It wasna a citizen said "Panic? panic, it was a tonic"



Formula Many of prisoner mean and noble has climbed the sleep staircase of the Tolbooth in the Canongale to meet his  $d \times m$ 

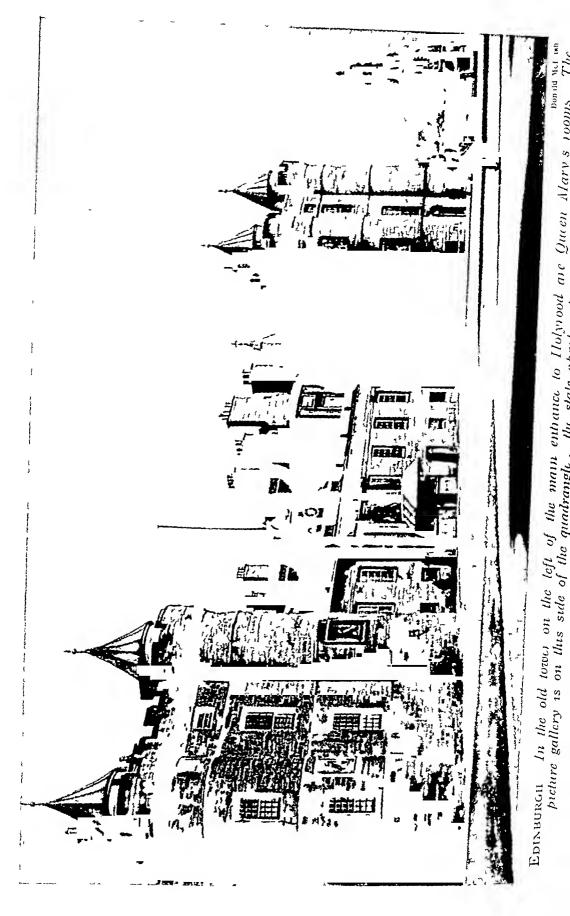
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I DINPURGH I reach from the Old Iown, I dinburgh Castle seems as inculnerable by time as the rock on which it is built 1742

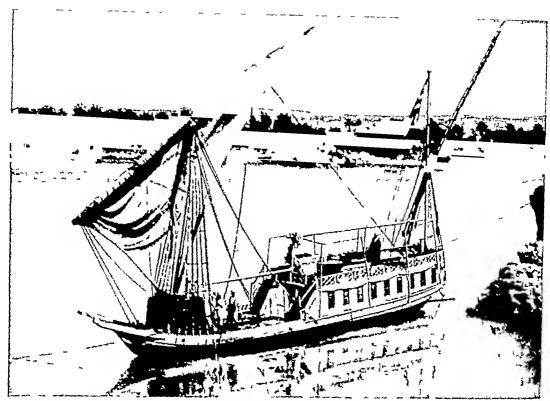


EDINBURGH Sel between the Castle and the Scott Monument the Art Gallery seems to figure art between history and romance

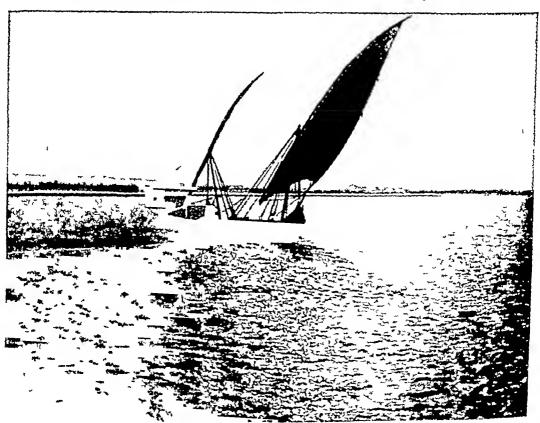




EGYPE Beneath the rocky tamparts of the Libyan d set at D to Usahit to smoot Queen Hatsh fit three then sand year age Unit hash to



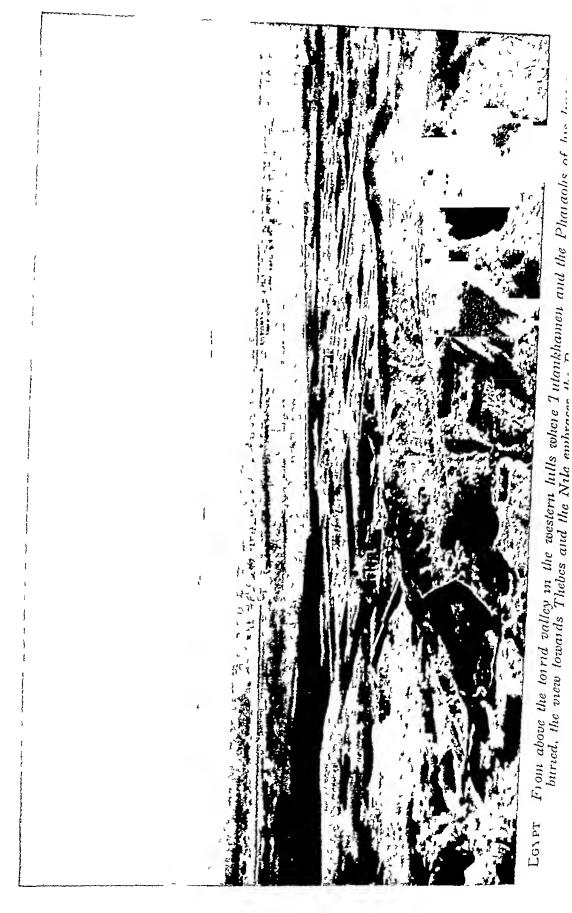
EGYPT Developed from the painted galleys used by the Pharaohs, the dahabiyihs plying on the Nile to-day are roomy houseboats



EGYPT Here in the moonlight on the Upper Nile the swift felucca, always a graceful craft, skims the water like a thing of living beauty



Toser This alabar index phase to like erd on the it of Memphis in 191. It did from the time of Kames. II 1747



## I GYP I

# Fertile Daughter of the Nile

## by Percy I Martin, inca

Author of "Perpi-Oll and ow" "Il. Sufan in Probation" etc

KOM any a pect-the wa far ler offers hather hel Low vendrageles. Lills project so shahily along the plan that trothing portional 1 striket the eve. The magnitalnetarch take the land reals Cranite of sand for life imegene plateaux, the plans of hom Ombo and Lillo-all I Lable to the cased of error although the preferred and the unique well, no draft digren con brail by differences. In the wonderful Valley of the Nile the sea itself once repetrated at least as far as Purch. I vidence is found in the still thick deposits of sand and erayel left behind he the recolons waters.

The coast displays man, interesting reological features the allinvial soft little or non-Whence if not from the quarties of the M k. could have come those ma he blocks of rock faming the structure of Mexandria's modern docks? Did not every bock of Cheopis massive pyramidle, covering 13 acres of ground and containing 68 500 con cubic feet of stone come from Leyptian quarties? And yet with all this primitive rock formation there are found singularly few precious minerals.

#### Parched Wartes of a Vest Tableland

In an area covering thousands of square miles (of which the narrow hile valley and Delta alone are thickly inhabited) a variety of solis must exist—naturally gravel chy and quantities of sand. In the fruittal valley the subsolis are of sandstone limestone and alluvium. Here moves the life of Lgypt. The many coace have their own small communities. They lie far distant from each other and are reached by caravans, except in the case of the

desert railways some of which are loung threatened with enguliment by the mental can be up to which they are so united anticular facilities.

The vact infinite ist land on other site of it. Not Valley to less according to the valence and parched to a fin dry lawler offers little informent to tarry on ones way one merely married that in such a dreapy describe organization from Luman Leups can be found voluntarily to distill inhabitant however there are not many perhaps a few thousand. Value of lierber organization to be over the organization of the organization of the organization to the out.

#### Promiers Cha fint and Unchenfi &

But habitable Erypt is physically a small country notwithstanding its predominant place in history. Well defined natural I sindanes upon three siles have underrune little change during the centures. To the north stretches the Mediterranean to the east the Arabian desert and tho Red Sea and to the west another desertable library. The south has no natural boundary. An imaginary frontier during 6,000 years has changed politically again and again according to the strength or weakness of the ruling power at the time.

To-day there is a length of 680 miles between the Mediterranean southwards to 2 N and Wadi Halfa, where the Anglo-Egyptian Sndan begins. If deserts valleys and the peninsula of Sinai be included, Egypt occupies an area of less than 400,000 squar miles. Under the Turks the Beduin had gazyded the frontlers and controlled public security in the interior. The British Occupation placed frontler



EGYPT AND THE NILE A CONTRAST OF DESERT AND TOWN

protection upon a better footing But the exact boundary between Egypt and Italian Tripoli has yet to be fixed, while that between the Anglo-Egyptian and the French Sudan remains unsettled

Upon this southern boundary, continually shifting, now to the north, now to the south, may be traced something of Egypt's own fluctuating fortunes Wide tracts of territory have been won by the sword only to be lost by the In 1883 the state had a terrisword tory nominally at least as large as (2,000,000 European Russia In early times, too, wavering miles) fortunes controlled the extent of its area during successive periods, as it did from the rule of its native kings under that of Persians, Macedonians, Ptolemies, Romans, Byzantines and

Mahomedans When Mehemet Ali, the founder of the modern vassal kingdom of Egypt, died in 1849, he bequeathed to Abbas Pasha, his incompetent successor and grandson, a power extending far to the south of the first cataract and including not only the Nubian valley of the Nile with the Nubian desert regions but also what to-day forms the Anglo-Egyptian Sudan, an area of some 1,000,000 square miles

The institutions of a country depend in a great measure upon the nature of its soil, situation and climate. Especially is this true of Egypt. Its impressionable people are greatly affected by conditions of temperature, moisture and sunlight. Besides almost continuous sunshine there prevails what may be termed a "continental climate"—that

is to say one that is over foundly severe It can be extremely cold—u unlikhowever it is intensely hot. Kain althou brare especially in Upper Lepq.t can prove terrential sometimes can ingily ling, whill the urt sun lin deserts of Arthay and Libya produce bush wan be by day an Leibm cell Indigits. I very we range of 1 mp rature by caused the natural risk to plut up desert term has driven the sand in big again it them the continual friction explaining the crumon by a bided surface of the crystalline's hists.

When Lone's Il my wrote of

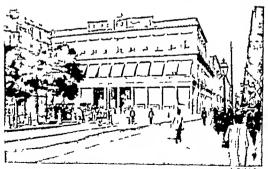
that not leach transmin the air which makes the payers of the city meet. Compatible on his other as they seed

he mire have then he of the winter air in Leypt. This were leful atm eigher further en mildes which because all sail about the effect of chinat up in human temperam in the account also for the x-rangmentin popularity of the full sanatura in Leypt. The comfort as well as the health of x-ritors has been tuiled with a difference and less in tuiled with a difference and

perfection of detail difficult to excel in any part of the world. What I is it is II lean with its curative alphan both and thermal estall himent or II he opolis with its uniquely beautiful it in atton. Its pare and bracing, air and upor between arrest to Valland of set or again. Involver a valual to some invigorating almost interesting at most per is to I inpact I in I is its II in especially just 1 for incress.

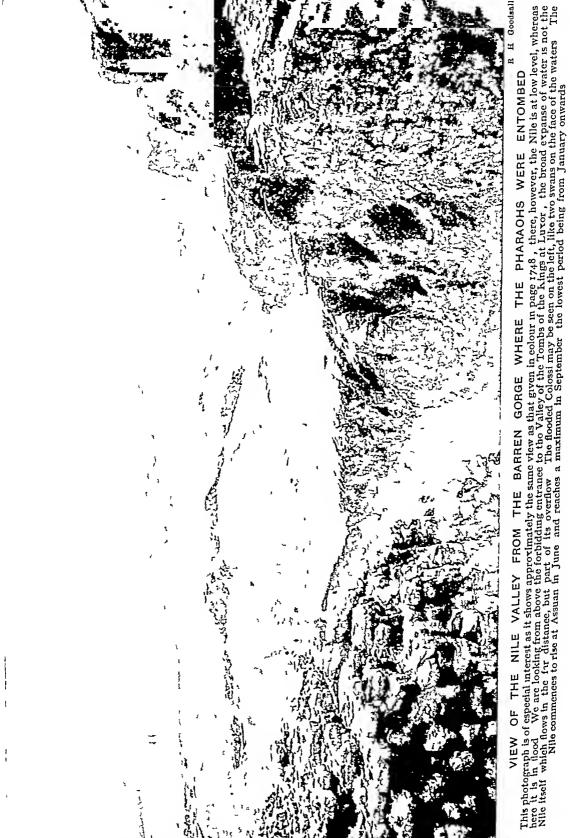
in Catro and the grater or little Delta the mean temp ratur 1 53 l in Jamiers fi in to by in fully During th 11 25 10 of the Klimsin desert wind the term rat it nyya birka 114 In Liper Levpt when the levert climate rules the main want r temperatur is 64 (minimum 17 ) while in ammer the thermom tir climbs to t in the first out the country the collect a roof i in thefore unrise the maximum point Improsched between and tim

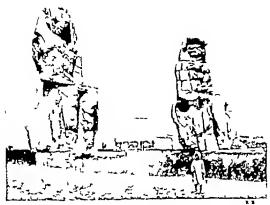
It is however the valles limit of legipt that call so are a tibly to the traveller. In it own capitaking way it is perhaps one of the most alluming of



PLACE MEHEMET ALI IN RENASCENT ALEXANDRIA

After long years of decay Alexandria 1. I had recovering wose of the prosperity which it enjoyed for oral order following 11. foundation by Alexander the Great in 331 a.C. The first, there of it recovery a. Mehemet All, lifer when this spagar the great centre of European life 1 animed. The whill building shows here countying the cest side of the spatie, the Liebanger.





FIGURES OF A PHARAON DEAD THREE THOUSAND YEARS I promising the spent of the Eryst that of for thousand who will the creatry loady, the so-call'of Goods of Mirranon, each on the wint but not but the vice opposite the ancient Telebra, about half suffer at of Mirrano III albus. They were here t guard the retirance of assistance that the companion of the companion

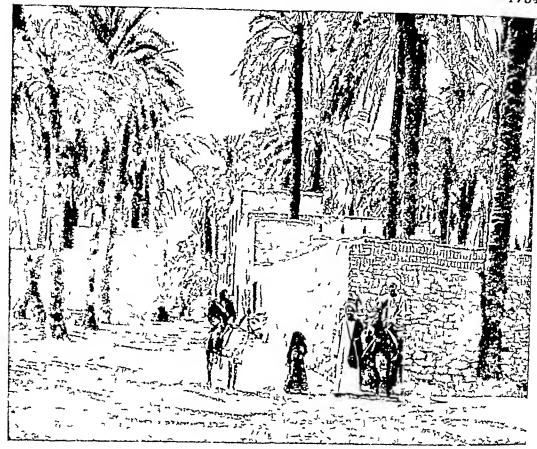
regions. Of trees—which Pope declared to be "nobler subjects than princes in their commatten robes "—there are many beautiful varieties. In every town and village one will see clusters of the Acacia nilotica, the aromatic thorn of antiquity the palm always beautiful and generally useful the tamarisk the sycamore once deemed sacred as

Christ's thorn tree "the mulberry and the carob or bread tree.

While the k bedives Abbas I and Said were avowed enemies of all trees, destroying them nithlessly everywhere, even in their own domains, and thus exposing their palaces to the full glare of the African sun their successor Ismail prudently engaging the services of the great French landscape-gardener Bar illet planted within a few years many thousands of fine trees. Tired travellers passing wearily along a once dry and

dusty highway have had good reason to feel thankful for this enterprise.

In a land as arid as Egypt the traveller would not perhaps expect to find many different varieties of flowers-those "prophets of fragrance beauty joy and But he will be agreeably disappointed especially as regards the number and beauty of the roses. Who has not heard of the Rosa damascena from which the exquisite attar is made? The flower flourishes side by side with the superb oleander geraniums and in numerable sweet-smelling berbs reaching an astonishing height. The Poinsettia pulcherrima with its leaves of brilliant vermilion surrounding but an in significant little bloom forms the glory of many an Alexandrian garden in The Nile soil is, indeed, so rich winter and so prolific that anyone wishing to cultivate flowers can do so as easily as



AMID PALMS THAT ROOT IN THE SOIL OF ANCIENT THEBES

Karnak to-day is but one of the innumerable villages that the life giving Nile calls into being along its banks—but together with the neighbouring town of Luvor it marks the site of "hundred gated Thebes". It is built among the ruins of the great temple of Aminon—but with its palms and its stone and mud brick walls is a typical community of the Egyptian fellahin.

did the Egyptian priestesses who reared and adored the sacred iris

But Egypt is not merely a land of While its manufactures may one day serve to increase its wealth and prosperity, its real economic strength reposes, as in ages past, in the hands of the cultivators of the soil But Egyptian soil, unlike that genial earth which "laughs with a harvest when tickled with a hoe," is hard to work. Yet from this difficult, inhospitable-looking baked earth formed by a deposition of Nile mud, once it is softened and sootlied by plentiful irrigation-water, are raised those wonderful crops which constitute the foundation of Egyptian prosperity The cultivable area is put at 8,000,000 12,980 square miles feddâns---say Much, of course, may be done with such an area, but, as a fact, little more

than three parts is actually under cultivation

No peasantry in the world are more severely tried in their struggle with nature than the Egyptians, nor any tillers of the soil called upon to display greater industry and powers of endur-But they now no longer depend upon the beneficent, if always uncertain, A perfected system Nile inundations of artificial irrigation throughout the seasons floods and irrigates land whereon nothing could formerly be grown Irrigation is of two kinds, depending upon the height of the land above the surface First there are the "rai" of the Nile or fields retaining their moisture after the river's overflow has retired sufficiently to admit of the ripening of the crop, and secondly, the "sharakı" or areas of artificial irrigation by means of

1755 EGYPT



IN THE GLARE OF THE MARKET PLACE AT ABSIUT

And I was an important form in the most ancient time, and I still the largest city in Upper
i gypt and the capit I of the province although the day rison to other roote of the ceravams
from the Africa biastriand has impaired if commercial prosperity. It is famous for its sho pottery and its gold and alliver embroadered showly. Does stream I the Admit Duri go

The fact that the reservoir is full of water shows that this photograph of the Assuan Barrage was taken between February and April At the end of that period the water is tapped for irrigation purposes until July, when river level is reached All the slutees are then opened to allow the Nilo flood to pour through, in December they are gradually closed again. The view here is from within the lock at the end of the navigation canal on the west side. Commenced in 1898 after decigns by Sir Nilliam Willecele the vast structure 2,150 yards across, and 98 feet thick at the bottom, was completed in 1902 at a cost of over £3 000 000

primitive but still effective apparatus known as the sakieh," the shadul" and the tabut" or by means of the more practical steam-driven pump

Measures must continually be taken against the numerous insect pests especially the pink boll worm. In this direction British agricultural inspectors have rendered invaluable services improving operations at the ginneries fumigating gardens and trees and recommending numerous remedial measures. A detailed study of the rusts and smuts in wheat baries and cast the diseases of cotton such as sorrestim and experiments with different fungicules, so far as they affect pansites, have helped greatly towards saving and mereasing Egypt's various crops.

#### Onlek Transport for Egypta Produce

Of agricultural seasons there are three the winter crop is gathered about the middle of February and the summer crop in November while the autumn, a short season but none the less important yields its cereals about January. Indeed there are but few months of the year when the gener our soil of this favoured land falls to moduce a crop of some kind.

Great advancement has been made in the marketing of Egypt's sugar cotton and other crops. In place of the ponderous ox-drawn wagon, creaking and grosning painfully and wearly over execusile sugarily and wearly over execusile sugarily along the silent waterway there are now motor trucks, speedy steamers and many miles of light rallway to deposit at the depots in a few bours what formerly took days and even weeks to transport.

The trade of Egypt has attained a position of great but varying importance. As regards both imports and exports the United Ringdom stands far ahead. During the British Occupation governmental coutrol had been felt—not always perhaps beneficially There were controls of sugar cotton peices, flour importation and tobacco cultivation. The sugar monopoly ended in 1023.

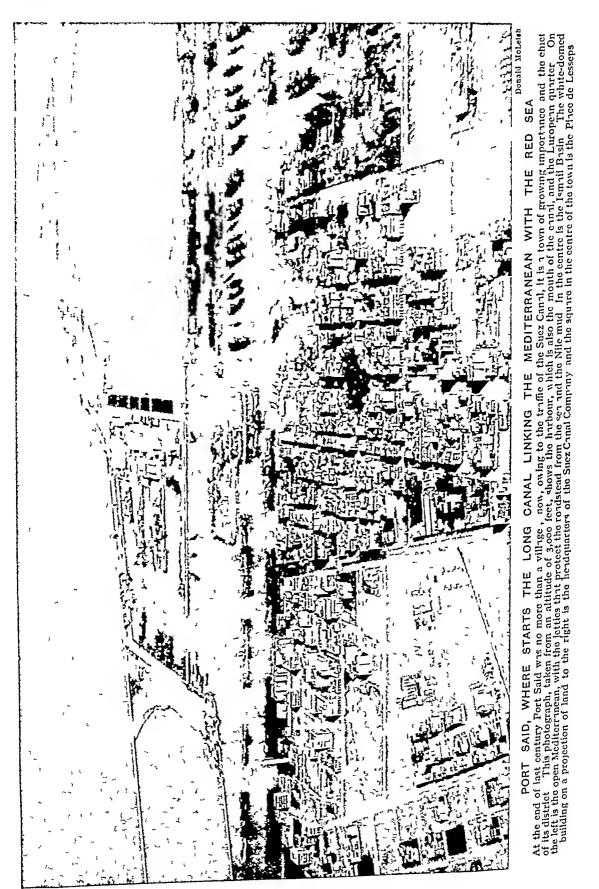
In no country is trade more affected by politics. An uncertain outlook in the situation is at once followed by economic depression—and a trade cross in Egypt can become a real menace. The banks which are still largely in the hands of reputable Europeans, help to keep the balance fairly even and are generally found ready to assist any legitimate enterprise or industry by liberal credits at moderate charges. The cash on delivery basis upon which most British export houses conduct their business with Egypt constitutes their greatest singuard.

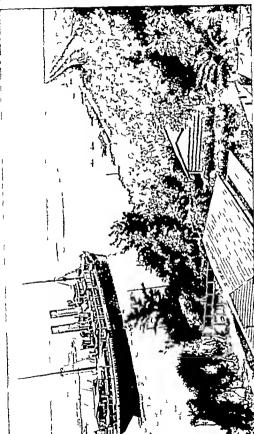
#### Wide Cheice of Sex Routes

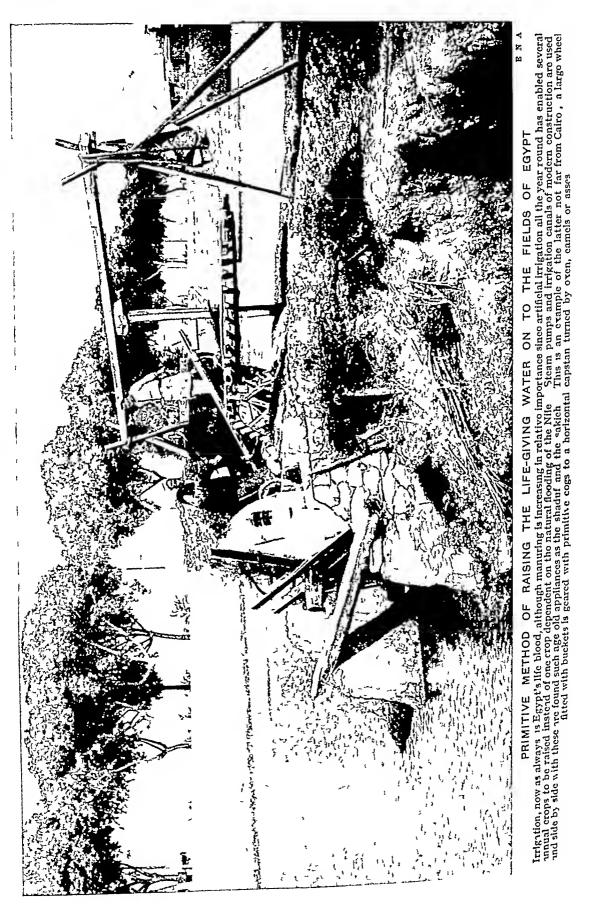
Egypt is quite easy of access. If all roads lead to Rome most steamer routes conduct to Port Said. Should one want to reach Egypt by a long route there are the P and O weekly service, taking twelve days from London the Orient via Toulon, Naples and sometimes Gibraltar the Bibby via Marseilles the Henderson the City and the Anchor from Liverpool the Prince from London to Alexandria to say nothing of the Japanese Auenthalia, the Messagenes Maritimes the Trieste-Hoyd and the well-organized Italian Servizi Marittimi.

#### Ideal Country for Acrisl Travel

Road fourneys are seldom taken when they can be avoided and to avoid them is not difficult since there are few Interurban highways in Egypt. On the other hand airways are becoming used. Egypt being an ideal country for aerial travel. There is already one fine aerodrome established at Aboukir and another at Heliopolus. An air trip between these two points-seven miles each way-is likely to rank one day as a popular pastime. Lord Allenby frequently made it, and Major Blake helped to popularise it. Another air service has been inaugurated between Cairo and Bagdad, the journey taking twelve hours by one route and about fifteen by another The same trip by see and river would take several weeks.









INVENTION OF SYRACUSAN ARCHIMEDES SYILL IN USE
The stand is far more simple than the extent the expect page and time more in the opposite roll of large to provide from the proof of bucket and monter light the opposite roll of large to provide from the proof of his first the large standard ways when the proof of the proof of the large standard to the contract more than the first is in this limitation in the probability the most fiction of the three method.

Railway travel remains rather sug gestive of Ru kin s dictum "It is not travelling at all-it is merely being sent to a place and very little different from becoming a parcel. Not only are the Egyptian state railways poorly constructed and poorly equipped, but the route traversed is of a wholly un interesting nature A journey taken from Port Said or Alexandria to Assuan -that is to say from one end of Egypt to another-leaves upon the mind of the average traveller an impression of deadly monotony physical fatigue and much actual suffering from dust sand and a plague of flics.

On the other hand a river trip from Cairo to Assuan or as far as Shellal and thence to Halfa (on the borders of the Sudan) is usually full of pleasure and interest since excluding those stretches of hare and uninhabited country passed an route the journey is as fascinating as the radway transit is disagreeable. Luxurious steamers and dahabiyehs there are in plenty former compare with the finest river vessels affoat while stoppages on the way are sufficiently numerous and prolonged to allow passent as to indulge in a fittle physical exercise and thus throw off the feeling of lastitude



THRESHING WHEAT IN A FERTILE OASIS OF THE DESERT Agricultural implements in Egypt are on the whole extremely primitive, and differ little from those shown on the monuments of four thousand years ago. The plough is just a six foot pole with a bent piece of iron shod wood fastened at an acute angle to the foot, and the thresher, as seen in this photograph, is a heavy wooden sledge with sharp disks of iron that crush the stalks and ears

experienced in a sultry climate from any prolonged inactivity

'In life Lord Lytton once wrote there are meetings which seem like a fate", this saying has been applied to Port Said, the "Gateway of the East," at whose portals the most unexpected personal encounters between worldwide travellers sometimes take place But Port Said is something more than a mere travellers' junction-it is the chief town of the Egyptian Province of the Isthmus and the Suez Canal, owing its existence, indeed, to the last named Originally a humble fishing enterprise village, it is now a highly prosperous

town, with a busy, noisy and heterogeneous population of nearly 50,000, of which probably some 15,000 are Europeans With the foreigners came modern sanitation and other civilizing advantages, at first little appreciated by the natives but better understood by them to-day

Before the work of the unfortunate Ferdinand de Lesseps, Suez was likewise a squalid little Arabic village very like Port Said Its original 1,500 inhabitants have increased to 15,000 but, this fact notwithstanding, the town, divided into European and native quarters, remains singularly dreary and

EG \ PT



BRICKS OF RILE MUD HARGENING IN THE SUN
Along the bank of the hir brick are tall made in the same manner when the largellet went int
bridge mind, though highly plants 1 in subricat coloring. The main there are along the mind the same manner to the man the manner of the man the manner of the man the manner of the manner of

unattractive in appearance. Yet both sections are clean, while the desert climate is altogether delightful.

The average traveller going to Egypt who tarries not awhile at Alexandria misses one of the most interesting places on the African continent. Solely for the prominent part played in those stirring days immediately preceding the institution of Christianity Alexandria deserves to be visited and its past history studied. It may not now be considered in the attrictest sense a beautiful city but assuredly as the former centre of Greek learning and once possessor of the finest library in

the world it must challenge attention It has suffered many vicisntudes and submitted to many different forms of civilization from the day of its founder the young king of Macedon (332 n.c.) through those of the Ptolemies the Romans the Persians the Arabs the Greeks and the Turks, until it fell under the sway of Mehemet Ali and after his brief tenure, of Napoleon. It was bornbarded and occupied by the British in 1882. The archaeological interests of Alexandria are real although little has been done to excavate below surface for those priceless historical treasures believed still to be concealed there.

At Alexandria and all along the Delta coast rain falls fairly often in winter, but the air is so dry that all moisture is speedily absorbed Thus the dreaded scourge of malaria is rarely encountered here, in the Nile Delta or in Upper Egypt never At Assuan the winter air is probably the driest of any recognized health resort in the world, but in torrid summer it may be compared with the hottest place on earth-Jacobabad. in the Bombay Province of India

The native population, numbering perhaps some thirteen and a half millions, is composed of "fellahin," the agriculturists, of Arabs from the Libyan and Arabian deserts, and of Nubians and Beduins, all of whom are Mahomedans The Copts, direct descendants from the ancient Egyptians, are Christians, inhabiting the towns and having their own villages

The fellah, who with other peasants is usually wholly illiterate, has become a new man endowed with new impulses and new ambitions The crushed, coerced and cringing creature of the beginning of this century no longer exists To-day he is represented by a healthier, steadier, more independent

but no less industrious individual, whose sole interest in life is still centred in his crops, and whose main concern is how much or how little water-supply will reach his particular patch of cultivation

Nor is a reliable and cheap watersupply the only economic blessing that the fellah owes to British foresight and enterprise The progress made in his health conditions—especially sanitation which previously received little or no attention—means for him cheaper living and a longer life The average mortality still, however, stands at 324 per thousand and higher among children

The Beduin, who no longer roams the desert with his flocks, but, become a sedentary tiller of the soil, now forms an important part of the rural population, is a better-looking type, hawk-like of feature and sometimes really handsome but inclined to stoutness in advancing age

Housing conditions have never been so good as to-day Road macadamising, street-lighting (even in the smallest of the villages) and drainage schemes in the towns with rather more ambitious installations in the cities have distinguished the period of responsible British civil administration in Egypt

#### EGYPTGEOGRAPHICAL SUMMARY

Natural Division A river trench and delta in a hot desert (Cf the lower Indus and Sind in the chapter on Rajputana and Sind ) The lower Nile, without tributaries, steadily losing volume by evaporation and seepage, flows in a trench in the plateau bordered by sharp-edged steep walls the Colorado Cañon) Except for the settlements of the oases and the towns of the Suez Canal, all the towns and villages are situated in the Nile trench (or the

Continental in temperature, with considerable ranges between day and night and between the hot and cool seasons Practically rainless, once in many months a tropical afternoon downpour may demolish many mud huts and flood the land, but the water is quickly absorbed by the parched earth and the huts are

rebuilt almost as quickly

Vegetation Land with possibilities of
water supply is too valuable to be left
uncultivated, and natural vegetation is
extremely scanty Date palms in the cases, useful and ornamental plants in the gardens, depend almost solely upon the

provision of water Tamarisks are in frequent use as sand breaks against the

shifting desert sands

Irrigation Dams at Assuan and Esneh,
barrages at Assut and Zifta, control the waste of flood water and enable a considerable head of water to be held for

distribution to the cultivators

The Nile itself is a Communications useful traffic route, winds blow up stream The railway follows the river to Shellal The Suez Canal is an inter national highway, with a railway beside it One railway goes east to Palestine and another west from Alexandria along the coast The airway from Cairo to Bigdad is one of the most successful air routes outside Europe

Products Cotton (quarter of the world's supply), cane sugar, rice, millet, summer crops, wheat, barley, flax, winter crops maize, millet and flood rice, autumn crops

Outlook Social conditions and hygiene, methods of cultivation and products have been steadily improved, and the future rests with the maintenance of a steady rate of progress

### ENGLAND

## I A Panoruma of Shire and Town

## by Sir John Foster Friser

Trivellet Lecturer and Author of Many Books on Land and Peoples

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EVERY country has much to here that it to be to but no creater for the same persi tent captivation chairm as has Old Inclind There are than, alreat the hard to emprise and characters ties of the people which at first the fixer rice Indicit har I to appreciate but making all concessions for hortenmings that is a hom lines and a weighful which won lurns mt r st into affection

So when American friends visit us and are inclin d to make comparisons to the advantage of their own country. Labays warn them. If you love the United States so much do not stay long with us for if you do you may have the same late as many of your tolk who liave been over here for a year or two when you get home you will notice American trans you never realized before and you will want to come back and settle amongst tru"

#### Travelli g Begins at Home

No mana education is complete unless he has travelled but those English people show little wisdom who are always rushing away to the Continent for their holidays to the neglect of their own land which has its admir able beauty spots and vigorous industrial areas, and where there is scarcely a village that has not a little romance Copposition on U.S.A. 1923, by The Amelyments Press ( 922) Limitel. 13 14

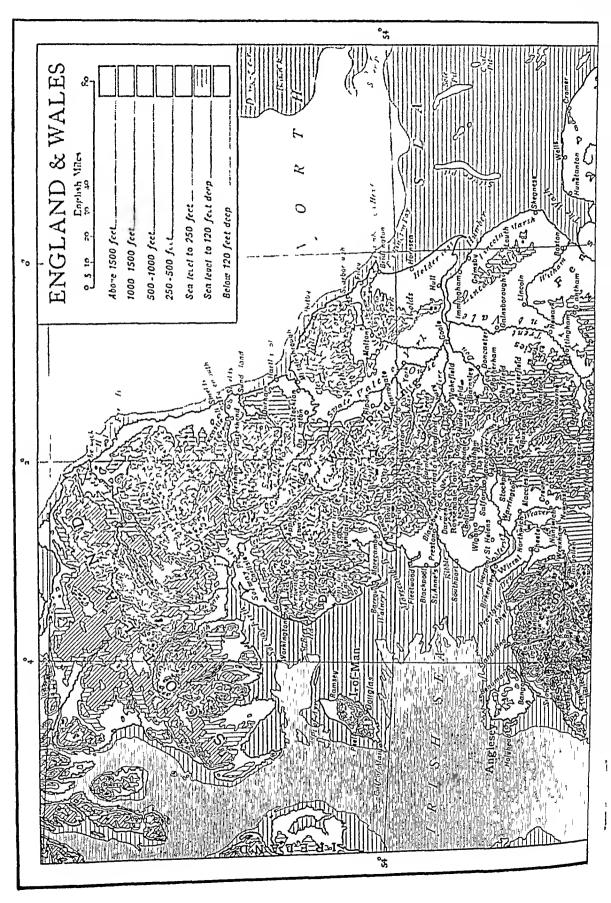
of its own. Yers delt littul times misbe had pottering through happy country tarm moll mark t towns which supersont of an entrincing povel or language to basel t pin in with Hollie al but the ways of the world.

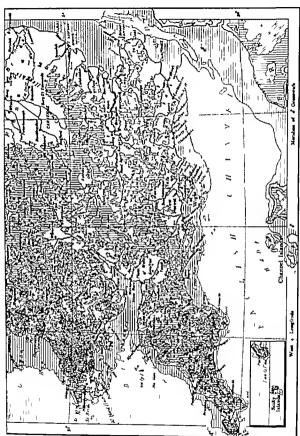
#### Local Indi idealism

We use the word. I nalish " as though it was an all embracing term to describe the inhabitant there are differ now, very marked, between the people of various regionsthe mental akrens of the millio. who live in the manufacturing di tricts of Yorkshire and Lancashir and the Midlands, the stolelity of the agricultural areas of East Anglia and the pleasant east-going and shrewd people of the rural southern dures.

Despite the railways and rapid means of transport, which it might be thought would have mixed them into a common mould, there are outstanding fratures which show how localities will not depart from their Independent character istles. We notice that in the various dialects, so that the man of Durham finds it a little difficult to converse with the man of Somerset. Though pest door to each other Lancashire and Vorkshire have fundamental differences. Lancastrian being fond of debate while

1765

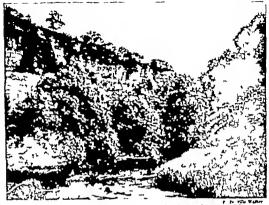




RELIEF MAP OF ENGLAND WITH ITS HILL AND RIVER SYSTEMS, CHIEF TOWNS AND DISTRICTS



Liverpool, with its tremendous line of dooks and quays stretching for over nine miles on the Cheshiro side alone, as permental as eaport handling one third of the total transit trade of the Empire and a great proportion of the Atlantic passenger traffic. The city contains many magnificent buildings of dignity and distinction. In the center of the photograph is Lime Street Station and the hotel eloward by the London Midhand and Scottish Railway. Facing the station is S George's Hall, the crow-ting architectural feature of the city. On the left are the Walker Art Gallery the Grow In the city was a second of the city of the c ondon Midland and Scottish Railway Tacing the station of Gallery the Free Library and the Wellington Monument SECOND GREATEST SEAPORT OF ENGLAND, ON THE MERSEY ESTUARY THE LIVERPOOL,



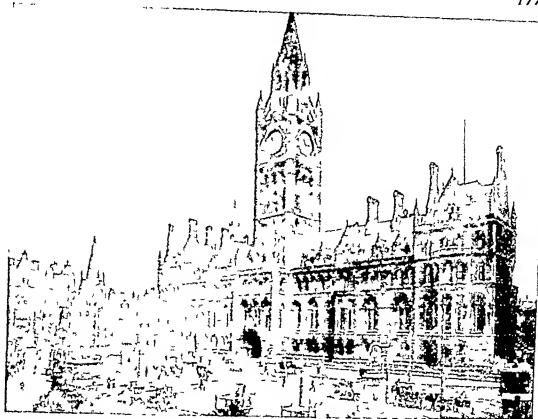
DN THE BANKS OF THE WYE IN A DALE OF DEBYSHIRE
A January perform which is revealed to the performance of the

the York hir man is addicted to sport MI down the eastern coast there is a fairness of countenance which reminds is of the times when the Danes came marauling on those shores while away in Cornwall one often meets people swartly even Semitic-looking, a human relic of the days over two thousand years ago when the Phoenicians came to the English West Country seeking tin and lead.

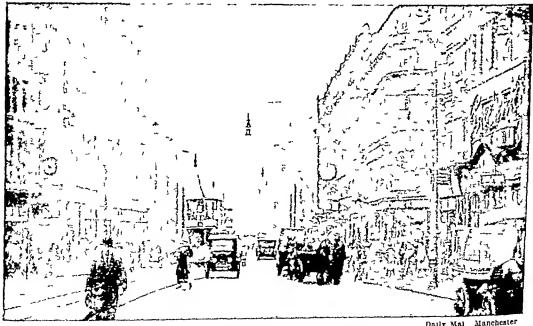
Climate has played its part in developing what seem the local idiosyneracies. So you find the people of the North harder and sturdier than those of the complacent warmer weathered South Local patriotisms are always to the front. We have evidence of this not only in sport but in the playful surcasms of rival business towns—the frank opinions the Manchester and Liverpool folk have for each other the superiority which the Leeds people like to claim over their neighbours in Bradford the sort of extellerddip Birmingham likes to display toward Wedverhampton even the jokes which you hear in Newcastle about Gateshead

Somehow: the impression prevails that the English of the northern industrial countries are keener more spry in business than the hardsh who live in the agricultural shares. It is to be remembered, however that when Eng land was first coming into its own in the snacious Elizabethan days it was the men of the South and particularly those of the West, who were the founders of its greatness seeking adventure and glors in distant seas, and that it has been within the last century the age of iron and coal, the woollen and the cotton mills, the big steel and other manufacturing districts, that northern wits have sharpened.

It is natural that men engaged in pursuits calling for technical skill should in time show quickness and readiness.



MANCHESTER'S FINE TOWN-HALL STANDING IN ALBERT SQUARE Completed in 1877, the town hall is the most imposing edifice Manchester possesses. It is Gothie in style, covers 8,000 square yards, and contains more than 250 rooms. The principal tower, 260 feet high, has a magnificent pe if of twenty one bells, and commands an extensive view, including the greater part of south Lancashire and Cheshire, with the Derbyshire hills in the distance



Daily Mai Manchester

LOOKING DOWN MARKET STREET FROM PICCADILLY, MANCHESTER Standing on the Irwell at its confluence with the Irk and Medlock, Manchester is the distributing centre for the cotton and other products of the densely populated area which lies around it. An ill built market town in the time of Charles II, it has grown, with the cotton trade as the mainspring of its development and prosperity, to become the first commercial town of England. and if iron and coal had been found in great quantities in the southern shires and the same talents had been devel pool there—that—circum tances—dev loped, say in the West Ishling of York hure and on the lands of the Tyne—the probability is that there would have been the same abettness in Wiltshire and Doeset and Somerset that many people that he peculiar to the people of the North. There is no question of superiority—it lea matter of difference in opportunity.

It Is the discretty of it natural resources, the way in which perial trales seem to have blockmed in parbeilar area, the varying attributes of the people frequently accentuated, the personality even the individuality of its famous towns—with none of the T square correctness of design found in the cities of newer countries—that make lineland unsure.

#### leres in Gonth of Towns

The Engli h are often difficult to understand but Lingland preads out a picture of low lines and accomplishment, bi tory and commerce romance and the plothing of everyday trade wheres er we turn and, because the story is long and sure we slowly understand low through the centuries this little knuckle loone of a country stock in the seas on the north west of Europe " has rained preyminence among the nations.

Picture-coeness and sanitation do not always co hand-in-hand Industrialism and physical well-being are not favoriable companions. Never countries than England have prepared plans for the growth of their cities, just as prosperous, fond parents have mapped out the educational career of their sons from preparatory school to university. But most English cities have just " growed " like Topsy and some of them have sprawled in a disjointed irregular way over the countryside. It is only in the present century that opportunity has been taken to design arry genial resi dential districts like the Hampstead Garden Suburb close to London, Letchworth, and other places where the desire

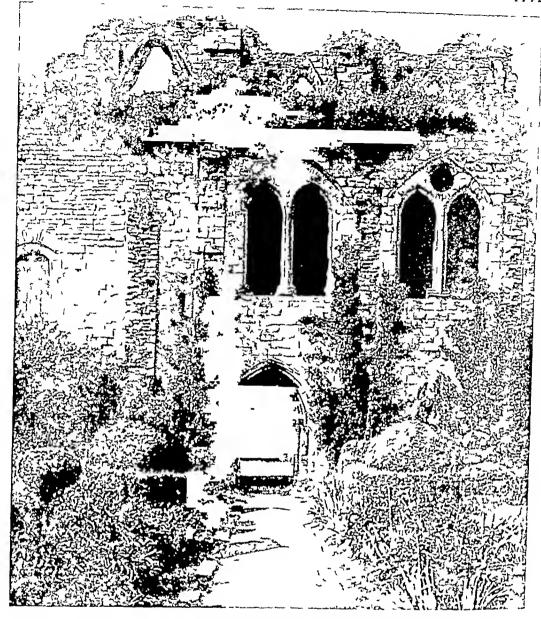
is to combine utility with healthy surroundings. Indeed many minner palities are now considering the arti-tic laying out-of-areas und r-thor jurndiction instead of leaving town planning to be a thing of chance.

#### I periment in Model Cloud &

Great industrial firms are beginning to realize the advantages of model towns for the benefit of their employees One of the first places of the sort was devised by Sir Titis Salt a York hire magnate who appreciating that good lion me means better work laid the foundation for the will built woollenmaking town of Saltane near Bra ford. Lever Brothers turned a marsh on th banks of the Merces into a delichtful colony called Port Sunlight with nice cottages plenty of gardens and all sorts of educational in titutions and entertainments to brighten the lives of thousands of soapmakers. It is very noticeable how much better the health of the clukken is at 1 ort bunkelit than in the prighbouring and congested Isoroughs of Bukenhead and Liverpool. Meson Cadbiny have done a similar useful and attractive work at Boom ville outside Birmingham. Other en deavours on a smaller scale have been made elsewhere, all indicating that public conscience regards it as the duty of employers to minister to the moral and physical welfare of their people instead of the relationship being merely one of ware-earning and ware-naving,

#### Highly Concentrated Population

I have made alludon to the different characteristics between the counties of characteristics between the counties of actioning there is a multiplicity of trades cotton has the forenose place, in the first county and wool is the staple industry in the latter county. In the industrial districts of this part of Eng land all within about an hour or so; arilway journey of each other there is a population of ten millions, equal to that of all Canada. Lancashire alone has a population far greater than the



WEATHERED RUINS OF AN OLD SHROPSHIRE ABBEY

The Shropshire parish of Much Wenlock contains a picturesque old abbey, founded as a numery in the seventh century and remodelled in 1080 as a Cluniac priory. The beauty of the rulns, including those of the priory church, chiefly Early English, and the ornate. Norman chapter house, is greatly enhanced by luxuriant greenery which has softened many of the scars left by T me's passing

total population of Australia Independent of its industrial position, I would say that Lancashire is the most intellectual county in England

Manchester, though it has imposing buildings, has no fine boulevards to set them off in sylvan surroundings is the rattle and clatter of business, accompanied with a generous amiability and cheerfulness of manner-though the lamp of prosperity is not always burning brightly-which rather distinguishes

the Manchester man from his business friends in other great commercial centres

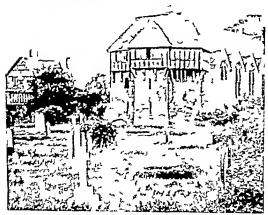
Manchester is not swaddled in com-It has a real interest in mercialism literature-indeed, for its population it has almost, though not quite, as good a display of first-class booksellers' sliops as Glasgow-and such shops in any town are always an index of the mental calibre of the people Manchester was the first of the provincial cities to show real interest in good music

theatical art Manchester may be said to be abead of London, for the folk, up there like an appeal to their brains a will as to their to like freshity. Man chester has produced a little school of dramatic writer of its roan and owes a great of all to the timul time, influence of Mie. If ruman who in pr. lucing plays has the ight more of their article qualities than of their leventh of their leve

The town has been bestiled a "the bome of hing causes". It may not be exactly true that what Manchester thinks to-day the rest of the country will think to-morrow, but the political influence of the town ever more it of a forement just a continua ago in actitating for better the total in presentation of

the people and, lat r was the head quarter of the I rec Trale movement led by (of len and Bri lit ha always exercised on ideral I pow rin Irretting political changes in the country Manchester more than any other town has played a prominent part in the cooperative and temperative movement.

There is a distribution of all sit the town half list next of the pulls buildings are cramped in narrow and expetimes mean to t 2 thunch Manchester was a little a harmed of to playing what is really valuable in its each life especially it innount and its art calleries. The university with it two thorsand tudent is one if these modern in titutions a li trict from theel haven of karning like Oxford and Cambridge where there to a jeaks) aim to combine culture with the progressive need of the gener two



STOKEBAY CASTLE, SHOWING THE GATE HOUSE AND PILORIMS QUARTERS. Slokeay is a village in Shoryshire amond after a famous coaching inn. 11 is removed for its cartle which date from the thirteenth century and it one of the famet samples of a fortified set possited sames bosse in F g'and. The mere-grown root the crumbing gray walls and the quant, half interved plytims quarture, all peaks to bygrow age and departed spendour

LNGL 1ND 1774

in which we live, an application of the fact that modern science, inclicine, laws of commerce (echnology, and the life are at least just as necessary to national welfare as acquaintance with the Greel polits and the system of juni prudence in meent Rome.

### Manchester's Great Achievements

Munchester University, Victorian University of Manche ter, to rive it the correct name, provides one of the many instances of Manchester ettina leiving layer anns morder to clevate the dignity of the city university is a development of Owens College which was founded under the will of John Owens and opened in 1851 There is the Whitworth Institute which contain a remarkable collection of water colours, a bequest of Sir Joseph Whitworth and also the John Rylands presented to the city and Library endoved by Mrs. Rylands in memory of her husband-- i wonderful library of a quarter of a million volumes including s veralthousand fanous manuscripts and Bibles in over three hundred languages

But perhaps the most important of Manchester's many achievements was the construction of the great slup canal, thirty-five miles long, connecting Cottonopolis with the Mersey and the sea, and thus in foreign business saving the necessity of transhipping by rail from Liverpool. Manchester, which was an inland town, has been made into a great port. Ships up to 12,000 tons can use the canal.

### Finest Docks in the World

In a way Liverpool is a sort of rival to Manchester—It claims to be rather superior—Thus in one place you hear of Manchester men, in the other you hear of Liverpool gentry!—I have heard the statement made at a dinner-table that Manchester ladies slip over to Liverpool if they want to keep in touch with the fashion—I know of no place in the country where there is such an air of solid prosperity, represented by dignified buildings, not only belonging

to the municipality but owned by private firms. It is the principal jumping off place for America, though Southampton has become a scrious competitor.

Incrpool used to be notorious for its sluins, chiefly occupied by dock labourers who effithers originally set out from Ireland for America and never got any further than Liverpool. But a vigorous and progressive municipality has done a great deal to demolish the slum areas and to erect serviceable and healthy tenement houses in their stead.

It is claimed that the Liverpool docks. with twenty-seven indes of quays and handling three hundred unlion pounds worth of goods every year, are the finest in the world. There is always a medley of confused nationalities, from visitors to stokers drawn from all corners of the One of the streets is occupied mainly by Chinese. Most of the public buildings with a leaning to the Greek style, occupy fine sites, like the great 5 George's Hall where many notable gatherings have taken place, and the Walker Art Gallery, which has undoubtedly one of the most distinguished collections of pictures in the world

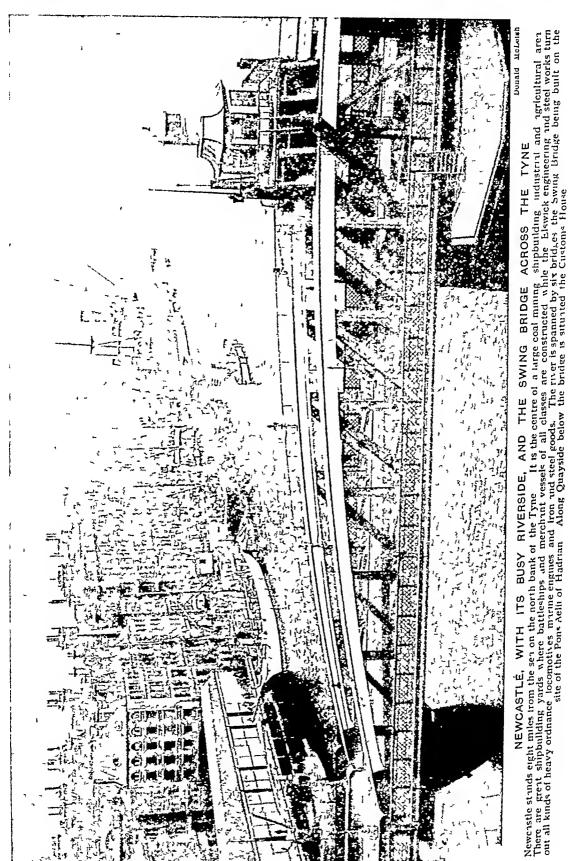
# Romance of Liverpool's Cathedral

The dominating building is the cathedral, dedicated in the summer of 1924, after twenty years of building Once, when I was having a winter holiday in Switzerland, I came across a lad of about twenty being much admired by a host of children because he was building for them a snow church He spent a whole afternoon constructing it, and when night came and candles were put inside and shone through the coloured glazed paper from Christmas crackers used for the windows the effect was fine I said to the lad who had made the church, "What's your name?" He replied, "I'm Gilbert Scott, and my designs for a new cathedral at Liverpool have just been accepted " Long years later I was his neighbour at a Royal Academy banquet and we both recalled our meeting in the Swiss mountains Now his



FAMOUS BRIDGE IN NORTHUNBERLAND'S COUNTY YOWN

The pictorrepeness of Old Americals is rapidly being molemend onto a circum; but still portion of the Liner commany; railed with the left leaded the mrer Type. (Iff cont has some skill processes, lon-whose heads uses in striking formgrainy a tramph of design empercing (AC-the High Level Disciple built by Servenous in Sylving, and which he raily y from Catchabal greame (AC-the High Level Disciple built by Servenous in Sylving and With the Servenous Catchabal greame (AC-the High Level Disciple built by Servenous in Sylving and With the Servenous Catchabal greame (AC-the High Level Disciple built by Servenous in Sylving and With the Servenous Catchabal greame (AC-the High Level Disciple built by Servenous in Sylving and With the Servenous Catchabal greame (AC-the High Level Disciple Ball by Servenous Institute Catchabal greame (AC-the High Level Catchabal greame).



great work is growing to completion and the hing has knighted him. Liver pool Cathedral is the largest in England, covering an area about twice that of S Paul s. It is an architectural triumph. One of the most charming—that s the right word—charming features is the Lady Chapel with its windows commemorative of distinguished women in all ages, with figures of English women on the staircase, and over the porch a gathering of statues representing the children mentioned in the Bible

Liverpool does not consider youth a crime, for it is interesting to recall that whilst the building of the cathedral was given to Gilbert Scott when be was only twenty-one S. George's Hall, in many trespects the most imposing building of the kind in England, was designed by Harvey Lonsdal. Elmes when he was only twenty four

### Two Port f th Old Slave Trade

In many ways the great city by the Merseyside is distinctive. Is not the Grand National Steeplechase run at Aintree, only five miles away and is there not Everton, where the toffee comes from? And the adjacent residential towns, with the stamp of comfortable prospenty upon them, tell of its success through many generations. These adjacent towns heade delightful Southport which among its other attractions is alleged to have a larger number of widows in proportion to the population than any other place in the country

There was a time when Liverpool—it is said to have derived its name from a mythical bird called the liver (you pronounce it lyver) which is moor porated in the city arms—was a mere village compared with Bristol, whence the Cabots sailed to discover America. The two ports were engaged in the slave trade a couple of centuries ago carrying negroes from Africa to America, though families who owe the origin of their fortunes to that traffic do not talk about it. It was the building of

magnificent docks at Liverpool and at Birkenhead on the other side of the Mersey so capturing most of the transatlantic trade, that seemed to push the old town of Bristol on the Avon into a sort of backwater. Now however the citizens of Bristol have become very much alive to the commercial advantage of their position, with many millions of population, gathered as it were at their backdoor in the Mikilands, and by the construction of the great docks at Avonmouth their town is again in communication with distant lands.

### Bristol and the Colston Feast

Shipping is increasing to say nothing of enhanced business in regard to the two things with which Bristol is associated in the popular mind, the manufacture of tobacco and chocolate

Bristol is a pleasing old city with many quaint relies of the romantic part when it was playing a lending part in opening up English maritime trade before the loss of the American colouies and the abolition of slavery scened to bring decay to its prosperity. Three argabled houses to remind one of bygone times. The old merchants in their generousty left many bequests from which Bristol of to-day profits. Every body has heard of the Colston Fearts.

#### Rivalry in Benevolence

Edward Colston, a great merchant adventurer of the seventeenth century and a joyous benefactor is commemorated not only by a monument but by four societies on every November 13-the Dolphia Society which is Conservative in character the Anchor Society which is Liberal the Grateful which is nonpolitical, and the Colston the oldest. Then all the men who are proud to have been born in Bristol, and have taken part in Leeping its commer cial fame clean, dine together with political bigwigs and others down from London to address them, and they enter into splendid genual rivalry by con tributing money to the many benevolent funds. Bristol has ever been famous for

hospitality and thinking of the needy brother The rush and push of utilitarian modern life have done much to despoil many of our cities of their architectural glories, but Bristol, progressive though it is, retains much of the charm of a medieval town

## Ports that Fathered the Fleet

Telling the story of the ports of England would fill a volume Whenever I wander through the crooked streets of Dover, or go golfing at Sandwich, with its sluggish little brown river, or spend a week-end at Hythe, or roam over the Romney Marshes, or seek a quiet holiday at Hastings, I try to picture these to myself as the Cinque Ports, which in the time of the Tudors furnished ships for the Fleet and are really the parents of the British Navy aided by These five ports were Winchelsea, which nowadays seems to have got back a long way from the sea, and by Rye, which seems to me like an old town in a story-book come into reality, and is, I always insist, the quaintest and most fascinating place in England The glory of these places is but a faded memory Dover still has its important place in defence, but when we think of the Navy our minds to places like Plymouth Devonport and Portsmouth

### Plymouth and America

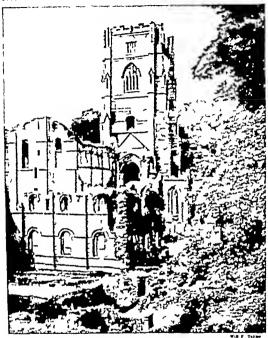
Plymouth and Devonport and Stonehouse make up what are known as the Three Towns, and while soldiers and sailors are numerous about the fortress. a considerable portion of the population is engaged in the dockyards building warships I fancy Plymouth men carry themselves with just a little special swagger in appreciation of what the sons of Devon have done in creating the far-flung Empire-Cool and Drake and Hawkins and other hold softring men-especially on a fine evening as you see them sauntering on the Howhere Sir Francis Drile was playing bowls when the Spanish Armada with concert in their swollen gallants, so lited

the shores of England, so battered were they by Drake that few ships of the Armada ever saw the tawny coast of Spain again. The association of Plymouth with America is interesting. It was from here the Pilgrim Fathers sailed in the Mayflower to found a new nation, it was here that the first aircraft to cross the Atlantic settled, and when the House of Commons admitted women to membership, Plymouth was the first to have a woman representative, Lady Astor, an American by birth

## A Vision of Admiralty

Plymouth is a great naval fortress, and in the Royal William Victualling Yard there is continually in storage everything to commissariat the Navy Important and frowning naval and military establishments seem to domi nate the architecture of Devonport Here are the famous Admiralty dockyards, where many of the finest war vessels have been built. A dozen or 50 miles away is the Eddystone lighthouse its two flashes every half-minute eigerly watched for in the black night by Englishmen who, having served their country in distant lands, feel the joy pang on sighting this first evidence they are nearing ' home"

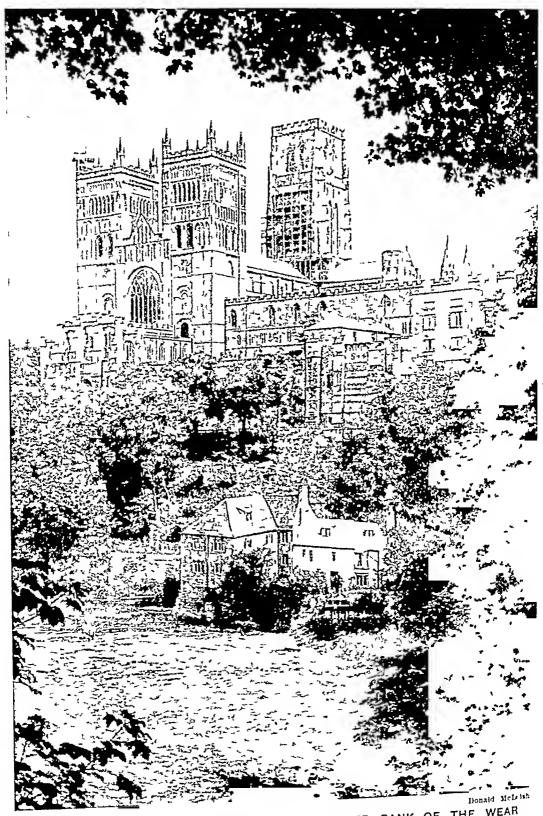
But the chief naval station—though it has not the same historic importance as Plymo ith-is Portsmouth, with its fine harbour and splendid roadstead of Spitheid, where some of us have seen the most imposing of inval review The one I remember best was in 1913 when the whole fleet rode out to wi m battle arr 15, few of us apprehending though the Sex Lords knew that all this stern equipment was in preparation for the mighty wir with Germans which would burst in a few yeals trans The Royal Dockyard with its dy docks and repairing besing and mile of wharfur a redenon tration of east of efficiency which makes one prost of Not for an ones nationality Southern uplay on victoria "a" a hunt of retire both it has the erv emotions of it has does write



STATELY FORM OF FOUNTAINS ABBEY SEEN FROM THE SOUTH Tomaded in 13 and only completed some seep 3 are later. Fountain Abbry is 10 or shire three infects south-rection of Ripous is one of the largest and level preser of Chierchan bookers in 1 gland. Among the extender clients are the chorch with it tower while it seen (the read of the next branept and its specimen of Late Propendicular the hapter books and the megalideral koisters.

be heard many stories of doughty deeds not recorded in ordinary history books.

Not far away is Southampton which during the present century has developed from being an antiquated town with buildings centuries old into one of England's most important altipping centres indeed with its magnificent ducks, it can accommodate the biggest vessels that ever crossed the ocean—the Berengana, the Mauretanla, the Aquitanla and the like which would find it hazardous to seek a way up the tortuous channel of the Mersey to Liverpool. One does not appreciate the size of these great steamers until one sees them lying alongside the docks and towering above all the neighbouring



DURHAM CATHEDRAL SEEN UPON THE WOODED BANK OF THE WEAR Durham Cathedral, a monument to S Cuthbert, is a massive pile of Norman architecture, commenced in 1093 The Galilee Chapel, at the west end, is a notable feature, as are the central tower and the chapel of the nine altars The choir is terminated by the Nev ille altar screen, and on the south of the choir is the Bishop's Throne, part of which is the memorial to Bishop Hatfield



YORK MIRSTER THE DIGNIFIED AND MASSIVE CHURCH OF A. PETER Famous opening for it made and opposed the service of a bond of medium the male for bolder examples of the Larly lat. In the stand Larly and Lat. Propendical right on both sides of the made well people for a field described lovers, and lett in the medium. I have the bong the last action for at these transfers to the control overselves of rest lateratures as the control overselves of rest lateratures as the control overselves.

buildings Not only are there to be seen the giant liners which ferry the Atlantic between England and the United States, but ships that sail for South America and the Pacific, and the magnificent fleet that is constantly journeying to South Africa and back

## Southampton's Twin Tides

A local story has it that it was here that Canute rebuked his flattering courtiers, who declared that as king he could order the incoming tide to stop. It is useful to know, and very advantageous to skippers of large craft, that it has two tides, one which comes up from the Solent—with the lovely Isle of Wight across the way—and another which comes swirling round by Spithead a couple of hours later.

Amongst its various docking facilities, Southampton has the largest graving dock in the world. Though a busy port, every week receiving and sending away thousands of travellers, it is a town pleasant to wander in, with its Bar Gate, eighteenth-century inns, the Hospice of S. Julian, its Saxon walls, its Wind Whistle Tower and Bugle Gate, and God's House Gate, names the very mention of which conjures up pictures of long ago, when the town was not so busy but life was more thrilling and picturesque

### Great Harbours of the Humber

There are many things accountable for England's greatness on the seas, but the part fulfilled by her seaports, whether naval or chiefly concerned in extending commerce, must be first in our remembrance, whether we think of Chatham, on the Medway, which since the time of Henry VIII has been one of our main defences, or of quite modern Immingham, on the sombre banks of the Humber, with its docks with every rapidly equipment up-to-date creasing our trade with the Baltic ports, and its ships outward bound with British wares and returning with timber

On the north side of the Humber is Hull, one of the most hustling East Coast towns, with not much to show the mere sightseer, but alert with true Yorkshire thoroughness, exporting much coal from the West Riding collieries, and having an expanding trade not only with Scandinavia, but with more distant regions of the world

It has been foolishly said there is no romance in trade. I never visit Newcastle or sail on the Tyne without the consciousness that here is one of the first chapters in the book of England's prosperity. There is a special quality about these Tynesiders, the Durham men and the Northumbrians, a sort of blunt geniality, a fine regard for efficiency, a lively concern in politics and public affairs generally, and a certain craze for sport, all of which seems to make them a distinctive class amongst the artisans of the country

# Newcastle's Engineering Associations

With all their excellence in workmanship, I should say they are keenest about sport Just as the Sheffielder, after toiling in the steel sheds of Brightside and Attercliffe, finds his relaxation in taking train to some modest stream and trying to catch fish, so the Tynesider, after a week in the shipyards or the armament works, or in the adjoining coal-mines, finds his main joy in training whippets (small greyhounds), and on Saturday afternoons keen competitions between hundreds of whippets are held, when the excitement rises as high as in the half-hour before the Derby is run at Epsom

Newcastle is intimately associated with the best type of English engineering—Robert Stephenson built the remarkable High Level Bridge which spans the Tyne and over which all the East Coast trains to and from Scotland travel—for here are the great works of the firm of Armstrong, and all down the river bank are shipyards, which have given such vessels as the Mauretania to the world—Indeed, the whole of the Newcastle district is one of the best examples to be found of energetic industry

1783 FNGLAND



Either, die Lincoln Cathedral Towerino above the city seen from the Strain law do not neck that could be do not neck that of the could be do not neck that of the strain to the did not do not maintained to large though the training of the control stractic beyon is 10% to 11 ft for could apply the training of the control of the straining of the control of the straining of the could be strained to the straining of the straining of

Writing of the steel business makes one take a jump to Sheffield, which, when viewed from a railway train on a rainy, murky day, is only to be equalled by the Potteries, under similar conditions, for dismalness Not so very long ago narrow streets, grime and a heavy acrid atmosphere seemed to be the chief characteristics of Sheffield During the present century, however, enormous improvements have been made by widening the main streets and by the erection of a noble town-hall Yet though nobody would say Sheffield has any claims to be a health resort, it is close to some of the most exquisite and impressive scenery in the West Riding of Yorkshire and in Derbyshire-indeed, it is astonishing in how short a time one can get away from the heavy, dirty, sulphurous air into districts that have innumerable rural charms

# The City of Cutlers

With its half million of population it is the centre of the steel industry. and huge concerns like Cammells and Browns have produced the finest armourplating for warships in the world sides having a worthy fame for steel construction on a big scale, the city has a unique reputation for the quality of its cutlery "Sheffield plate" is the delight of collectors in all countries The Master Cutler ranks equal with, even if he does not surpass in dignity, the Lord Mayor, and the Cutlers' Feast, which is held every autumn, following the installation of a new Master, is generally an occasion seized by some members of the Government of the day to make an important announcement

### Yorkshire's Hive of Industry

Politically, Sheffield has been inclined to show a stern independence, and in the old days was one of the first constituencies to return an "independent" member to Parliament, John Arthur Roebuck John Ruskin, founded a museum here, and there is an art gallery given by the Mappin family, associated in many ways with the fortunes of the

town, while the university, incorporated in 1905, is in its curriculum more akin to the modern progressive United States universities than it is to the old English seats of culture

In this part of Yorkshire one is in the most busy manufacturing region on the face of the earth. For besides the steel works in Sheffield and Rotherham, there are innumerable mines yielding the first quality of coal, and Leeds is famous for quality and the magnitude of its output in woollen materials. The district, with such towns as Bradford, Halifax, Dewsbury, Huddersfield, Wakefield, Barnsley, Shipley, and the like, is a hive of industry, with a population of about four millions.

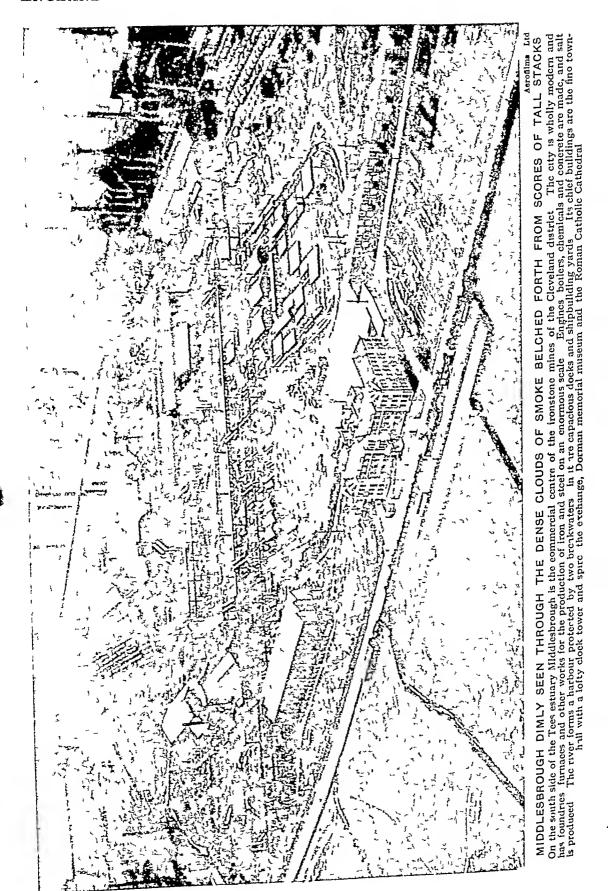
Wool is the staple manufacture, cloth-making having been brought to Yorkshire by men from Flanders three hundred years ago, though it was not until about a century ago that the West Riding began to gain a position of preeminence, but there are many other trades, with engineering coming as a good second in importance to the woollen mills

## Supremacy in Cloth Making

Until comparatively recent times a great deal of the weaving was done at home, but now it is almost all done in the mills, many of them fine airy structures A most impressive sight on a dark winter night is one of the Yorkshire dales, like the Colne Valley, filled with mills from the windows of which thousands upon thousands of stacked lights, as it were, Working in the mill has are gleaming become almost a hereditary occupation, and this accounts in some measure for the quality of the material produced Certainly West Riding goods have a merit which cannot be surpassed in any Countries like other country United States and Germany can provide a good second-class cloth, but for the very best quality Yorkshire is supreme The water from the moors has special ingredients which improve the wool, and this, together with the rather damp atmosphere, gives the West Riding an



IN THE HEART OF WILD NATURE IN THE ENGLISH LAKE LAND
Soft allers stemblekts, travel il lake, ripyling size one and turbulent waterfalls constit to that
mount and beartons region of Combertand, Westmontand on Small part of Laurabile shows
the Lake Dr. trick, Wastew for in Cumberland, the without and deepert of the lake, is some three
moles long and has it soot emboured in the Malley while it also also correlationed by tall pe is



advantage over other areas where woollen cloth is made.

The rattle of the weavers clogs hastening to work is not heard so often nowadays, but the mill lasses retain the old habit of wrapping their heads in shawls when going to or returning from work, so that to the casual visitor they suggest an appearance of drab poverty. That is not at all their plight they are merely following the custom of generations. On Sundays and holdays these girl dress as well and as prettly as any artisan class of women in the land.

### Diverse Midle d Manuf eturies

What is known as the Midlands presents a great diversity of towns following particular trades Nottingham with its face making, a clean business, and with the claim that its lace hands are the prottiest guls in the land Leicester devoted to bosiers. Northampton to boot making. Coventry to motor can and bicycles Stoke, Hanks Burslem, Longton, Tunstall having interest centred in potters, minster making carpets Noiver hampton devoted to ironware. Reading to becuts and Burningham holding the credit of manufacturing more jewelry than is made throughout the rest of the country Besides these, there are such places as Burton-on-Trent, renowned for its ales Derby Rugby and Crewe, great railway depots

All these places have characteristics town individualities, localisms which develop a useful patriotism. Birming ham takes pride that in civic improvements it has long given a lead to the other great provincial cities. It has a lively interest in things educational, which explains some of the tremendous fervour it has displayed in great reform agitations. It has often had great political names associated with it, like those of John Bright and Joseph Chamberlaim. For vigorous expression of hiberal throught Birmingham is not outdoor by any city

Though folk who do not belong to the Midlands find a twisted satisfaction in speaking of Brummagem goods, a sneer that there is a good deal of rubbishy timel adomments, georgaws and idols made for distant heathen lands—which is probably true—the town and neighbourhood have a big share in furnishing the world with necessary articles ranging from screws made by Nettefolds to materials of war at kyrooth s.

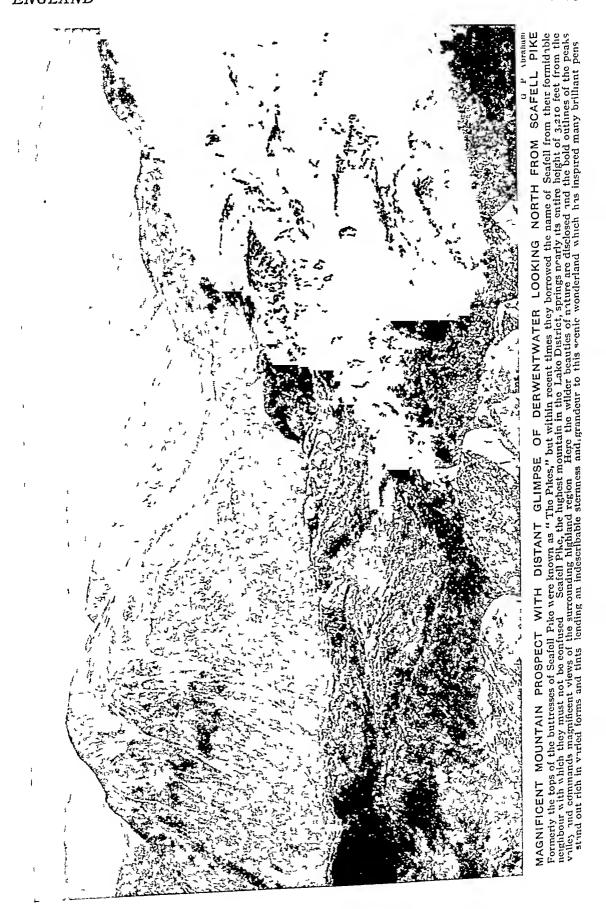
### Where the Coppers Come From

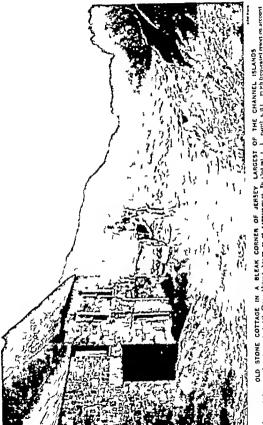
Indeed, though pledged as a city to social amelioration and broadminded ness in all things religious and political, Birmingham s prosperity has been linked again and again with enormous output of armaments in time of war mingham also makes, not only for Britain but for other countries, most of the bronze and copper coins in circula tion. Each English town seems to be associated with some particular product and while this applies to Birmingham, so far as public knowledge goes, the fact is that there is no other place where such a variety of trades is followed. Another distinction is that while elsewhere the whole tendency is toward the elimination of the small employer the sentument in Birmingham is much more toward the continuance of the little factory with the master and half a dozen men working together

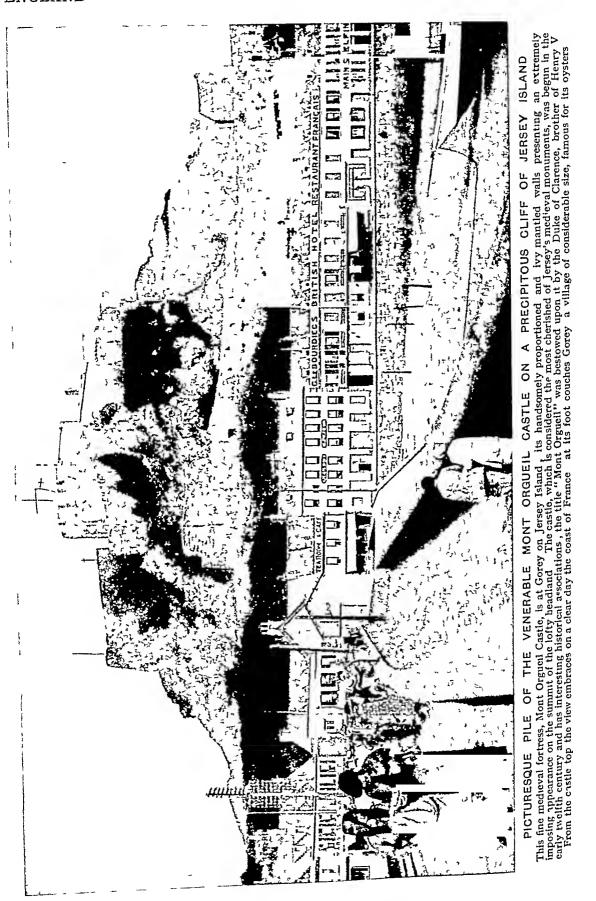
### Heart of the Black Country

Birmingham has fine public buildings and galleries, but the dominant note in the city is mutustral earnestness. There is proof of this in the scientific and mechanical sections of the truly modera university with its two thousand men and women students, and the Municipal Technical School where the students are twice that number

There is plenty of push about Wolverhampton which for several centures has specialized in the manu facture of locks and keys, and is the centre of a grimy industrial area known as the Black Country but it has long been rather over-shadowed by its much more pushing neighbour Birmingham. Then there is Coventry once chiefly







known a the place where I als Godina to le thren h the treet in what arts to the altor ther and wher rascal called Tom was truck Idin I because he peeped upon her when all the other people turned away so that be hould not be all a led little long time now open rather les un la towants hold a correlation for making watches and pretty rild m In the eath days of the break (meets, cannol di turtion In producing the first the sort of machine till kn now, though as late as il mineties rather relicibed In each to who and in the lack selecomb a lie who land a little of humang lehad. The salets combines coverilly when hard the wer teplaced in preminitie and in the ereat been that I down that inventees Coveniry 1 and 1 alea 1 in a way which tartful it old at inhabitant Later on ther cam the meter-car and once again Coventry wa also opportunities and mill the most of them

#### Leicester J King Les

There is something cheerful al est Lescester despite the 1 lef that it i the place where hose hear and he dinghter hard in far off days many historic a sociation. But since it took to heart and I is making it has had various eccentricities There t a dogmatism al sit it people If wa a hotland of Chartam, a lafetted the birtliplace of Thomas Cooper at gained notoricty by I fying the law of compulsors saccination and away luck in 1811 ju t when railways were beginning to thread the land, a Mr. Thomas Cook arranged the first radway excursion from Lexcester to Los liborough and that wa the beginning of Cook's tours which now enturne the earth.

Notinghim may be described as a kind of 1 ter of Leicester for here too there is hovery with the addition of lace Lace suggests dantines and so it Is casy to suppose that life is more genial and pleasant in a Lecenaking than in other manufacturing fown. I remember hearing it once described as a little Pairs. Quite a number of poets lived in Notting ham—Hyron, William and May Howitt Henry kuk. White and Philip James Bulley. Though of heate machinery produces I autiful lace long ago there were terril le not in Nottingham, when weavers in a hed the looms in penning mill because they regarded machinery as permison to the interest of hand workers. Perhaps at he of this notons lehaviour: I and in the I ind. of high putted wong reselfers, if to day who are known as the Nottineham lamb

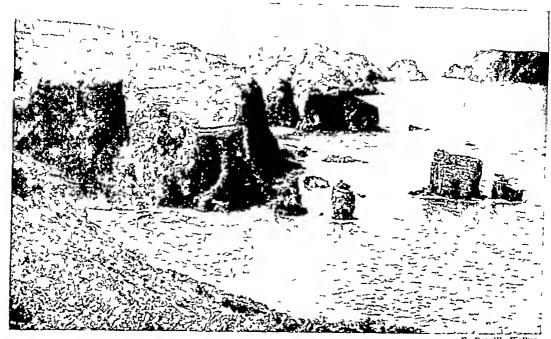
#### enedated Taulan'l le ralee #

Il a in the Arabam text one could be wated on a mack carret and carried whater one will I that would be much to enthral in the wind rink ees of the lamb the work hay of lingland prodiscing a myroal rices it was for man, and di pat lung tl cm to all land 1 sol ting th San Sa There i Darlancton in the nextly where on the radway station platform may be sen the first railway בשבוות לאינונים לוחילותה את מתיונות וחל making gold r lookes to you mights there in Mira and South America There is Middle-leauth which has no monument of the pat was nothing but field a century ago lint now is walespread with a population of over a hundred thou and and I the head quarters of the Claydand steel dramet making several million tons of ore from every year. There is the neal Preston." os r in Lancashin, sending forth to india and oth r tropical lands great long notion to estimate

#### Reeding Biscuk and Banbury Cakes

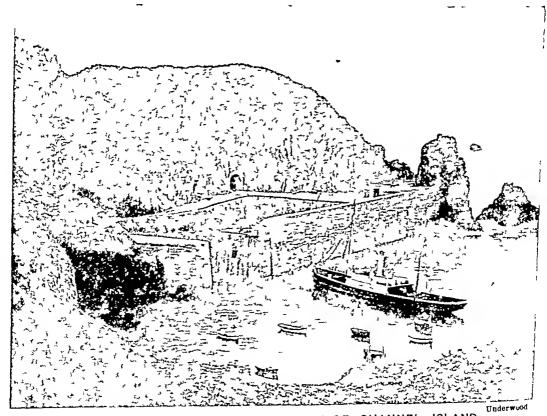
It was the Intliplace of Lady Hamilton who captivated Nelson the bone of the tectotal movement and It presents every Laster Monday in Avenham Lark the grandest demonstration of egg rolling imaginable.

There is Donca ter which combines building railway engines with making butt reacts and has one of the finest race-courses in the land. There is heading where the brecuits come from and Banbury, Jamous for its cakes



RUGGED BEAUTY OF SARK'S ROCK-STUDDED COAST

Small as Sark is, it embraces nearly every variety of scenery. Great rocks he in detached masses around the shore, some of the most famous being those seen above, off the wild west coast, where scarcely a trace of habitation is visible. They are more than 100 feet high and are known as the Antelets including the Grand Antelet, the White Antelet and the Needle



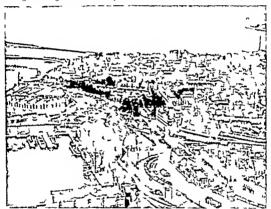
MINIATURE HARBOUR OF A MINIATURE CHANNEL ISLAND

Sark is only three miles long and about 1,270 acres in area. Its small harbour lies on the east coast and is known as Creux Harbour. Here at the base of immense perpendicular cliffs two minute piers have been built—the shorter one being added in 1894 to facilitate landing—while access to the interior is gained by tunnels cut through the solid rock wall

where the lady in the nursery rhyme rode on a white horse with rings on her fingers and bells on her toes.

Many English people are in the liabit of visit pecturesque towns. But I will not concede that within the space of our own country we have not as romantic old towns as can be found anywhere in Europe. For quiet sweetness hundreds of English villages are without peer

Canterbury Tales and think of the merry converse there was by the way. As we saunter the streets, with many old fashioned overhanging houses the very names of the finns—like the Fleur de Las the Falstaff and the Flecce—seem to bring a soft aroma of ancient days. And we can and do have tea in angular eak timbered chambers, where all the furniture and the fittings are intended to help as back in magnation to days when

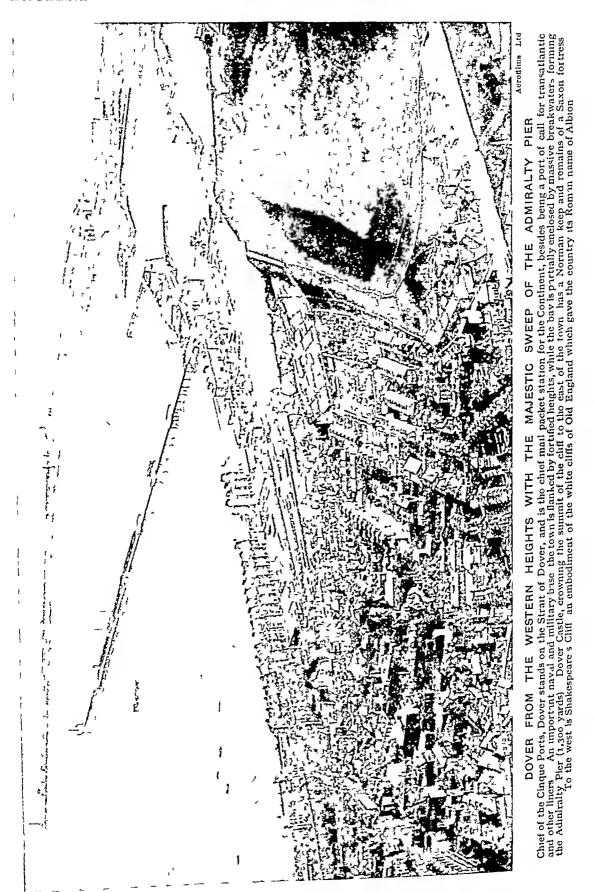


SOUTHAMPTON FINELY SITUATED ON SOUTHAMPTON WATER

Southimpton powerers one of the finest natural butbours in England, and has the ad nature if
double time one was the Solect and the other (in bours later) is spitead, it has many historic
associations, and there are considerable remeater of the old town walls, it tung from Normen times.
Secures so from here to America, Praces, Africa and all parts of the world

Some of the cathedral cities are monuments of charm and old time dignity. We cannot go to Canterbury hastening there in a high-speed motor car without having the sensation of pilgrims and recalling the medieval times when thousands of devo t folks slowly trudged over the Pilgrim's Way now somewhat havy and obliterated, to visit the shrine of Thomax's Becket. Even If we have not read Chaucer's poems, we picture the journey told of in the

England was younger and more pous you may play golf on the Kentish coart near where in the sixth century S. Augustine first landed and brought Christianity to our shores, and when on an afternoon you stroll the streets of the town where the first English cathedral was erected, you may recall that Charles Dickens often came here and you may even look round to see if there is some shy modern David Copperfield or some Urah Heep slinking along. It



is good to go into cool old hostels where footsore but spiritually elevated, pill gruns used to rest although one does rather gather from Chaucer a poem that the pilgrimages of the middle centuries were folly outings as well a journeys to seek virtue by the tomb of the murdered Archbishop Becket. Cannot we picture the pilgrims coming along Mercery Lane all eager to purchase the healing water drawn from Becket a Well?

The cathedral dominates the city Although we know parts of it were crected at long distant periods, it is wonderful to think the original church was tarted in the years immediately following the Norman conquest. To-day there is the constant clatter of the boots of visitors seeing the sights. Becket a shrine and the exquisite oak screens and the stamed glass windows and sculptured tombs over the remains of forgotten worther, move to silent admiration thousands of sightseers. There is a church within the cathedral, for in the crypt is a specially walled-off part where every Sunday afternoon there is a service in French for French Protest ants So it has been for over three lundred and fifty years, a memento of the days when the linguenots fled from their native land to seek shelter in England.

#### York Scleedid Misster

Wandering in the cooling hours of late summer afternoon one can find, almost within the shadow of the cathedral monastic buildings, the closters, the old towers and the lung is School with surely the oldest foundation in the country stretching right back to the seventh century. But even before the coming of Augustine when the Romans were still in Bratian, there was a Christian church S. Martina, and portions of that place of wordup built when faith was just peeping into England are part of the little edifice which still bears the name of S. Martin.

Though Canterbury takes precedence amongst cathedrals, York Minster is a more imposing pile. Whenever I am in York I envy the delight of folk from other countries, especially from our Dominions and the United States, in getting acquainted "with this grand old place with the stem city walls still guarding it and the big gates still to be entered. Some of the streets, with plenty of antique shops, have not changed much these three hundred years except in that they are cleaner now than they were in those days.

#### Gay I' when ad Robinson Crusoe

No novelet could my int such names as Micklerate Bar and Baik, Hill Clifford a Tower and the Red Tower the Abley Cate house Multangular Tower and the Merchant Adventurers Hall-the last with its old panelling and relics recalling the time when trade guilds and not trade unions had chief voice in the commerce of the country have been mights events in York hot figliting from the time of the Romans until the time when the Germans dropped bombs from their autraft many a rebel in the Middle Ages ended his rocky carrer with his head stuck on a pole above one of the bars or city gates many gallant gentlemen during the centuries have been born here, and yet the two famous individuals, now keendars and fictional, that the youth of England know best are Robinson Crusoe and Guy Fankes

There is much majesty in the interior style of the Minster but the thing for which it has world wide renown is its glorious stamed glass especially the graceful Five Sisters window dating back to the fourteenth century.

### Louden Ancient Rival

Another historic cathedral city is Winchester once the capital of England when Alfred was king with civic records covering more than a thousand years, and to-day a pleasant easy-going place with certain characteristics reminiscent of some of Anthony Trollope's novels. What a contrast it is to London, and yet seven hundred years ago it ranked equal to London. The Great Hall was

partly built by William the Conqueror, and here hangs the round table reputed to be the very one where King Arthur and his knights used to sit A London society calling itself the Knights of the Round Table makesanannial pilgrimage to Winchester The cathedral is not so magnificent to the eye as some sister churches, but it is full of historic and ecclesiastical interest. Alarm was caused carly this century by the foundations, laid over eight hundred years ago, showing signs of sinking Those foundations, partly resting on swampy ground, had been underpinned by the monk builders with oak beams, and when some of these were removed, so that by modern engineering methods the underpinning could be made satisfactorily complete, the fine quality of the timber was surprising Many of the recovered beams were utilised for small carvings sold to obtain funds toward making foundations really firm

# Salisbury's Slender Spire

Another cathedral city, in the neighbouring county of Wiltshire, is Salisbury, with the most graceful spire in the It is the one cathedral in England that is complete in design without having changed its architecture and its style during the years of construction It is completely symmetrical, though its slender spire, the highest in the land, was not added until a century after the main building was completed There is a story that the scaffolding erected to build the spire around in the early fourteenth century was removed for fear the slim lance of a tower would fall, and there the scaffolding remains to this day

## Leaning Houses at Eveter

There is something agreeably slumberous about a city like Salisbury, with its peaceful old houses, the trees and the green lawns in the close, the lovely yard within which the cathedral stands Yet it has given great men to England Facing Blue Boar Road is a statue to Henry Fawcett, who, though blind, rose to a high position in politics and at one time was Postmaster-General

Exeter has a beautiful cathedral. lacking, however, the size of some other parent churches In this western town many of the old houses bulge inconveniently into the streets, but this adds to the quaintness In all the changes of the centuries the Guildhall remains very much as it was when built nearly five hundred years ago An American friend of mine could not get himself to believe this hall was standing before Christopher Columbus set forth to discover the New There are oak-panelled houses and some especially fine oak wainscoting to be seen in Mol's Coffee House, though no longer is coffee sold there, and in Tucker's Hall, which, like a City company of London in ancient days, was the guild house of the "tuckers, weavers, and shearmen" when England's best cloth was made in the West Country and before Yorkshire became important

I like to think that England's cathedrals in their dignity are symbolic of the real English character, notwithstanding the dross and the tawdriness which sometimes overlay it. Who from a railway carriage has seen the old city of Durham, a jumble of red tiles and crooked streets and a swathe of smoke tumbling murkily along, but the scene dominated by the dark and lordly cathedral, without being conscious that here is the truest picture of northern industrial and religious England?

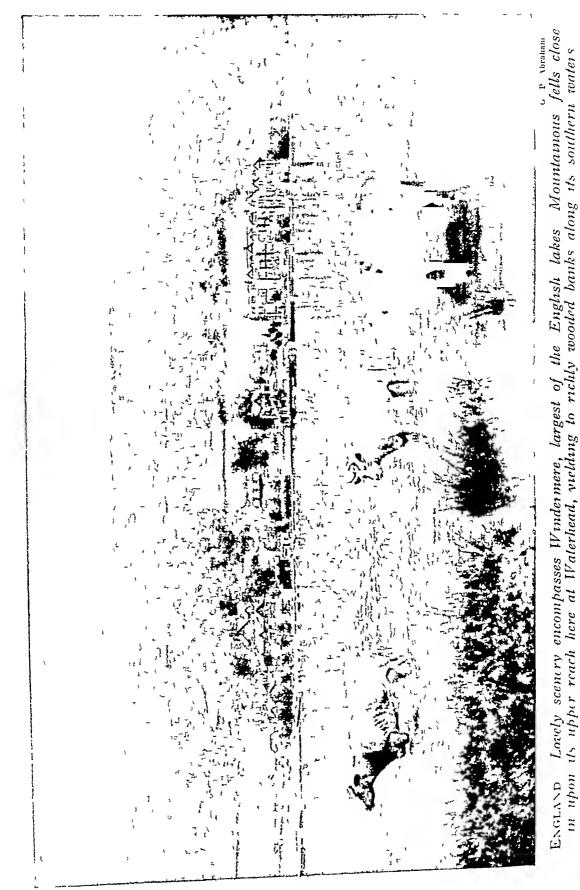
## Age-old Fane of Durham

Durham city clusters a little awkwardly about the skirts of the highpoised church which has cast a blessing
over these lands for more than a
thousand years. By models large and
small, iron at the doors of mansions,
brass as tiny awakeners on the doors of
bed-rooms in private houses, there is no
knocker in the world so famous as the
twelfth century ring on one of the stout
doors of the cathedral. There is a tradition, probably with no foundation in
fact, that in long ago times, the knowledge of which is now faded history, the



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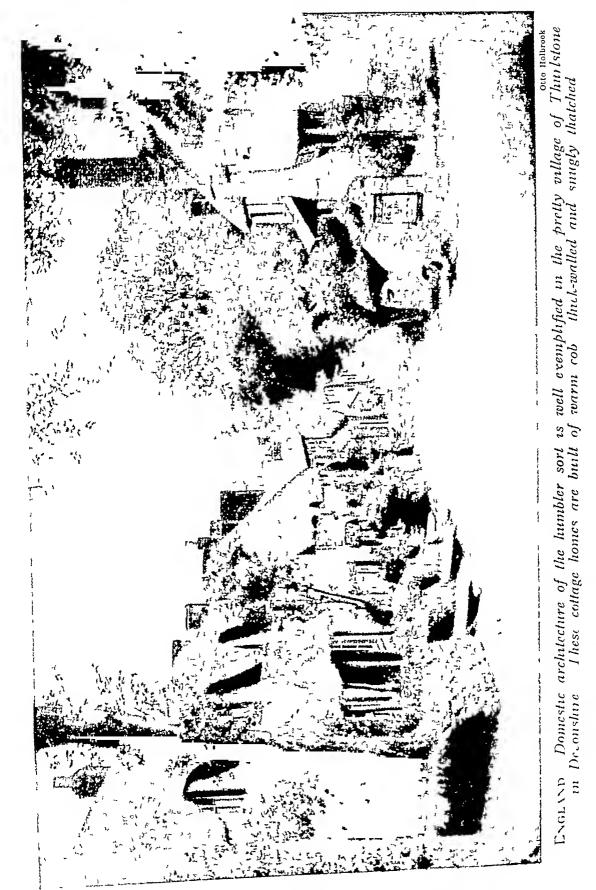
ENGLAND By common concent Deracutante is the most leantiful of the English Lakes. Wondarns enhanning in Stall's gund it on the wells and crive fells and road frome its cland half I urface



will F Taylor
NGLAND Near Tintagel Castle, legendary birthplace of King
Aithm, the Rocky Valley twists down to the wild Cornish sea England



ENGLAND Polperra a quaint village on the south coast of Cornicall thirteen miles from Bodmin 13 a centre of the pilcherd fishery





Excts i One ict nits for from Luturo coptor de il outon pord Jül tacots male up reconsids full cheminands at UTB at Holder) i port pet men l



beating of this knocker gave sanctuary to anybody fleving from wrath or arrest. The byshops of Durham formerly ranked as prince—indeed, within their own territory they had the authority of kings but for nearly a hundred years now they have been shorn of their sovereign rank.

Another imposing and high-possed Minester is that of Lincoln, and here again just as in the case of the Durham knocker there are innumerable folk who would not recognize a picture of the eccessa tical pile but are well acquainted with the Lincoln imp one of the carvangs within the church and supposed to be a joke on the part of a monastic mason in depacting some superior who was none too popular.

### The Ecclesistical Clayour

Lincoln has had its share in the history of England holding at one time almost as important a place as London and York. When one looks at the old larges drowsy in the waters of lirayford, by the hill which the Vinister crowns one smiles at the fact learnt in schooldays that six critimes ago it was the fourth scaport in the realm.

Most towns and especially those of an ecclesistical flavour recen to divide their citizens into two sections. Even m these most democratic days this di tinction is well marked in Lincoln, between those who live up-hill and those who reside down-hill. Within the shadow of the Minster there are old and beautiful houses, and the people who them counder themselves somewhat apart from the thousands of citizens who are on the flat lands below and engaged chiefly in the manufacture of agricultural machinery. Were it not for its industries. Lincoln would be in rather a backwater Old customs have gone such as used to prevail at the Stuff ball-started to encourage the wearing of local stuff which everybody did at the dance-when a cord was drawn across the hall so that the townspeople would not be able to mingle with those who belonged to the county Lincoln to-day produces much of the finest engineering In the country and won laurels during the Great War for the quautity of ammunitions It turned out Various people claim to have invented the tank "which on its first appear ance crawling over the battlefields brought such construation to the enemy but there i no question that the first tanks were made at Lincoln

### Liarela of th A liquery

Important though the manufactures of Lincoln are the appeal which the city mak is smamly antiquarian—with its Newport one of the two still complete arches in the country made during the Roman occupation. The Stonebow a fine though in these days a cramped gate with a delightful old Guildhall above the Jews House and the House of Aaron the Jew the dli Bull Ring and up the hill jist as one enters function had been also as the state of the state o

If there were space I could dwell affectionately on the old cathedral towns of England. But Lincolnshire and adjourne portions of Nottinghamshire have a peculiar interest to those concerned in the religious story of England

#### W. U-beed | Nonroeloculty

Withm a few mules of each other are the village of Scrools, and the little country town of Epworth in a part of the counts called the Isle of Axholme. As the north bound trains rish between Ret ford and Doncaster few passengers look out of the carriage-window at a low lying farmhouse between Scrools, village and the railway line I et it was from that farmhouse that the Pilgrim Fathers set out, some going to Barton-on-Humber and others to Boston with its well known Stump the town from which the "hub of culture on the other side of the Atlantic took its name. And at Epworth John Wesley was born. It is significant that it was in this corner of England the Nonconformist movement received its chief impetus.

Away in the flat regions of Cam bridgeshire is Ely with its cathedral



S ANNE'S STREET, SALISBURY, LOOKING TOWARDS THE CATHEDRAL Standing attractively on the north bank of the Avon, 84 miles from London, Salisbury contains many interesting features. One of the notable secular buildings is the sixteenth century Joiners' Hall, the fine old timbered front of which is seen to the left, but the glory of Salisbury is its cathedral a thirteenth century classic with the loftiest spire (404 feet) in England

and little happenings in its history since Hereward the Wake struggled valiantly against the Norman conquerors Farther east is Norwich, which, apart from the story surrounding its cathedral of Norman days, and in a way separate from the rest of England, has characteristics of its own Somewhat stolid compared with Englishmen elsewhere, there is a worth of character

about the people of Norfolk that im presses everybody who is able to win their confidence. Norwich seems to have a little civilization of its own, there is a local pride which is admirable. There is a variety of industries which seem to have continued for centuries, from the making of books to the rearing of canaries, making mustard and brewing beer, turning out mourning crepe and

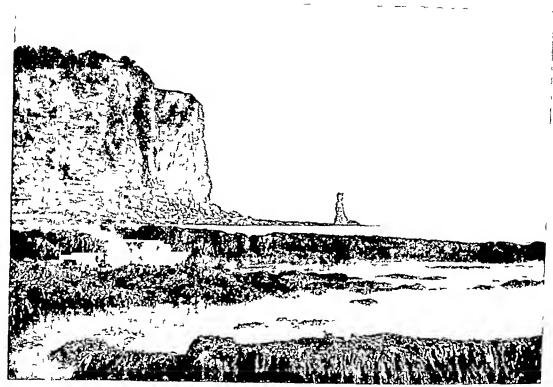
FNGLAND



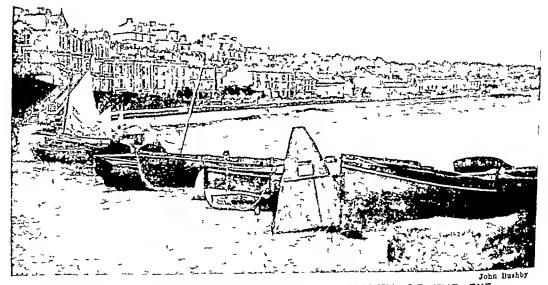
OLD TIME ARCHITECTURE IN WILTSHIRE'S CAPITAL

This id heragonal Poultry Cross of fants the design was erreited in the fourteenth century and is one of the sumeror relect of medieval times; I extinct in Malobury. It recent the tooth est corner of the large mark tyles many quarks buildines are in it. Firstly, methoding the Langerine hall benit by John Halle which Land on the worth risk of Canal Street.

growing roses, producing a school of landscape artists, of whom Crome is the most lamous, and being the birthplace of such women as Elizabeth Fry and Harriet Martineau Beedes, I think if 8 true that the Norwich Mercury." which was first published in 1714 is the oldest newspaper in England which has not changed its name. We have also for remember George Borrow a sasciation with Norwich. From Berwick down to Penzance the whole of England is radiant with story whether it be in building wirships on the Tyne or in making cakes at Ecclewater in Worcestershire or the mightiest city in the world like London. The whole land is a tapestry of fascination, for each district has its attractioners. It is excellent to become acquainted

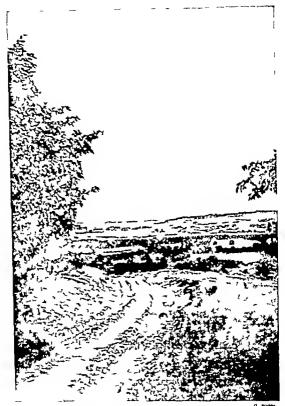


DAWLISH, THE RED CLIFFS OF GLORIOUS DEVON AND A STONE SENTINEL Sandstone cliffs, crowned with trees and luxuriant verdure, towering above the blue waters of a restless sea, make a scene of matchless beauty The solitary rock, known as "The Priest," by some faneiful trick of tide and storm, has been eroded into the semblance of a cleric. The rocks at low tide, covered with dark green seaweed only add fresh charm to the kaleidoscopic effect

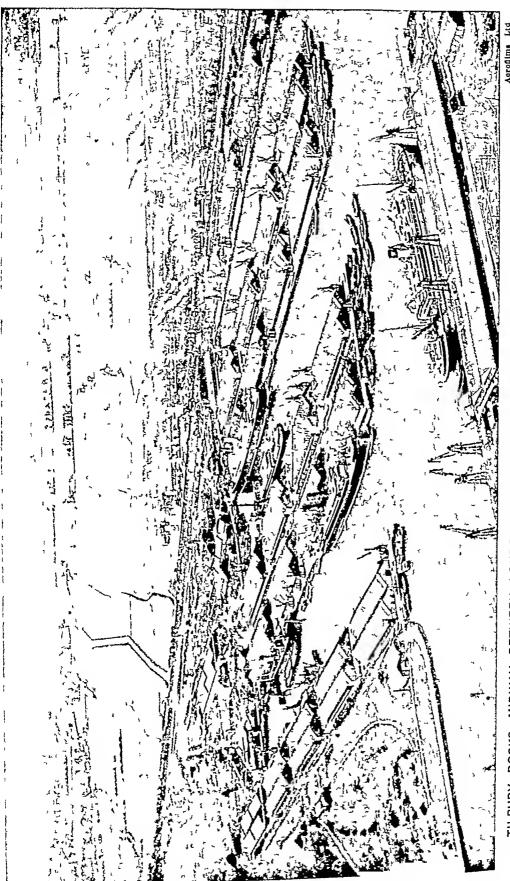


TOWN OF DAWLISH, DEVON, NEAR THE MOUTH OF THE EXE

Dawlish lies in a cove, sheltered by two projecting headlands, while on the north it is protected by
the Haldon Range Enjoying a warm climate in the early spring and summer, it has become
increasingly popular as a watering place Pleasure gardens line both sides of a stream running
through the town, while the railway passes between the town and the sea



DUNCTON HILL LOOKING OVER THE SUSSEX WEALD TO THE DIM SURREY HILLS below as the middle detrace lies Burton Parks at bit tree gut take and the low-I log country stricking y lower of two trotts. The did calls road is one of many cut arrows the Downe since Romes days but is now used only by occasional tarm cars. The walls across the Union or violet sprishful tert unispected from end to end alsocat in learn of manepeased beauty.



THAMES Liners of too great a tonnage to ascend higher up the Thames lie at Tilbury Clan and other steamship lines They are 21 miles from London on the



Strines strads on the Thrmes, where the Colne flows into it, nineteen miles from London

There is the drow siness of Dorchester where lives Thomas Hardy who has immortalised the whole of the country side in his Wesser novels, and where to wander beneath the trees along. The Walks brings prace and content There is Taunton, the county town of Somerset a great country for exder and where the "families" still have a little of the influence of old feudal days.

And not far away are two dear old towns Glastonbury and Wells Glastonbury is wrapped with romance. He is lacking in imagination who can visit the old Abbey without letting his mind sho back to the stones told by Mallors there not a tradition that Joseph of Armathea brought the chalice of the Last Supper to the happy, spot beneath the hill, that St. Dunstan was born here and St. Patrick bursed here and with poetry infusing legend that before the altar of the old church-whose abbot was once the mightiest abbot in England-king Arthur of the Round Table and Guinevere rest?

#### Where M. Pickwick Doned

Within easy travelling distance of one another are Gloncester and Tex kesbury Hereford and Worcester Ludlow and Shrewsbury At Gloucester when you have explored the cathedral where Edward II lay after being murdered at Berkeley you may visit the New Innbuilt five hundred years ago-and remember the story that it was here that Lady Jane Grey was proclaimed queen. Over at Tewkesbury you can seek refreshment at the llop Pole, where Pickwick dined with Bob Sawyer and Ben Allen or idle part of a hobday by re-reading Mrs Crarks John Halifax, Gentleman" ( Nortonbury Tewkesbury) or try to find out what Shakespeare meant when in "Henry IV he refers to Tewkesbury mustard.

Hereford once a guardian town, with strong towers against the Welsh, has many quant houses. Worcester which used to be the chief city in the land for the production of cloth, now produces the well-known sauce called by its name as well as gloves and porcelain ware and it is distinguished in history by standing stoutly by the Charles in the days of the CivilWar. It takes prode in being always true to the lung whatever happens. That is why it carries the motto." Civitas in bello in pace fiddles.

Ludlow has a number of Tudor and Jacobean half timbered houses. And though in runs what a fine old castle, there is, once the fortress of the Lords President of the Marches, always with an eye on the Welsh border.

#### Skrawsbary Clet by the Savern

Shrewsbury which I have found it a jos to visit positively hugged in embrace by the Severn, with inhabitants showing a traditional fondness for cakes and ale has some funny old houses in places called Decrobe and Wyle Con.

Frends from the Dominions and the Inited States are often "intrigued by the deletious flavour of some of the English place names—a thing which some of our posts have noticed, names which were not invented but apparently grew out of the soil. An American woman friend of mine exclaimed "What pretty names, when, in talking about a motor trip I was arranging I spoke of Chalfont St. Giles and Holmbury St. Mary. Is there not something beautiful in just recture the names."

### The Seven of M New N mes

Such places as Chevy Chase Wyaston Leas, the Wolds, Widecombe-m-the-Moor Walton-on-the-Naze, Symonds Nat, Tarn Howe, Tavy Cleave, Thorpe Cloud Ugglebarnby, Southern Delaberte Sutton Courtenay Ashby Magna, Bere Regis, Burnham-on-Crouch Cannock Chase Cherry Hinton Combe Florey, Drayton Beauchamp Hinton Admiral Lutton Hoo Mavis Enderby Runnymede—oh, many hundreds of place names that seem to have come up like flowers, instead of as in newer countries, being just a label stuck on a town!

We have many towns, besides those I have mentioned that make no pretence to engage in the industries which have



Nove I andon the Thunes England stargest and most Important river, has but a small commercial traffic and is an ideal bouting river. Perhaps no section of it has been printed and photographed more frequently than that at Richmond. At this point the stream is mainly a pleasure ground for since the lock, the last and lowest an the Thans, constructed in 1891 has controlled the swift current and underswirl of the waters the reach of the river between Richmond and Kingston has been and been and been an included of punits and canoes small rowing boats and funnels? He can during the summer months

 $\Gamma \Lambda G L \Lambda \Lambda D$ 

made Lucland what it is but are a kind of ganlen where test and plea are can be obtained allier the telled the list. One town which ment the description the nearest to Londen, a Tunbank, Will. For over three land hed went that been the resect of proper or Londener who desire to take the waters and month Kentich sceners. How the idea grewith is difficult to as but there is a 1-1-1 that the first appreciation of Tunbal levels was be reader; a manual this fee.

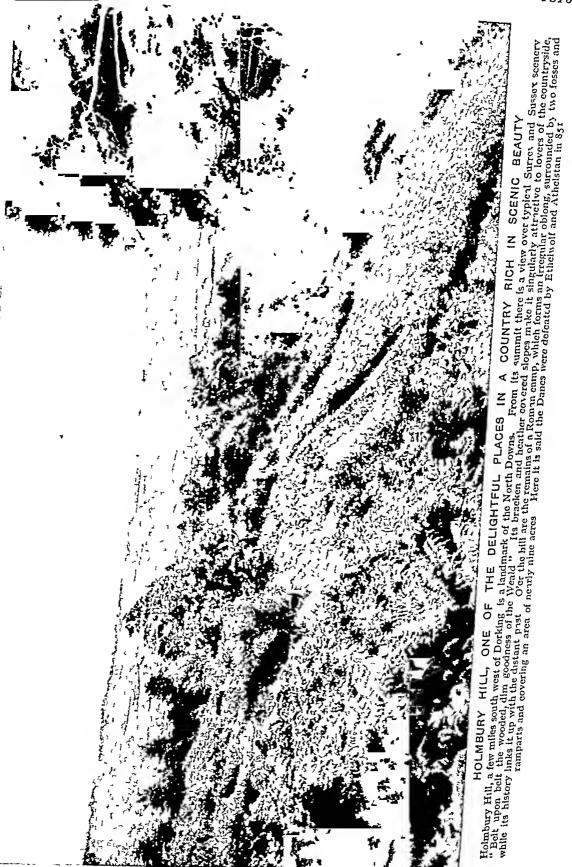
reset with a mineral water perally timulatin to the liver which may be splantwish the timure so popular with orther 1. Anglo-fielding though it does a right explain sty at so larmed for its scholar in titulen. Let hips it is or to be tinguo field entre two a financial or the section has medical membres. The titulen is the sheet of the country what the Libes (Allye certainly prosides a charming find by the and the such titulen in the secondary of the such that is an amount.



MIDHURST SUSSEX WITH ITS QUAINT HALF TIMBERED HOUSES

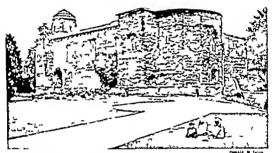
MIPHURE, harming market loss is emploanded by some of the loss to trible towns are the 11 from a surrounded by some of the loss to trible towns an indicator of 10 feet 1-year distanted in Condity 1. I feetiles the content. It begans it is a 1-th secretized to the property of the

there are places called Mount Zon, Mount Ephram and Calvary, though the latter is now generally split Calverly. One sees Tunlendge Wells at its best in keafy summer time, when the timn is hall of sed it ly disposed systems moving along the promenade called the Lantils a colonnade on one side and tres on the other which has be no favourite walk for nearly three centures. There i Cheltenham, which is a note health Another place of happy retreat i Malvern—which also has a splendid college for boys—which includes Creat Malvern and Luth Malvern Malvern wills. West Malvern North Malvern and also one or two others. There are cosy botch and private houses which sugg st a comfortable income of a couple of thousand pound a year and cay walks allowed the skirts of the Malvern Hills, though a climb to the



Worestershire Beacon rather tests the "wind of the middle aged. Let the ting up is worth it for one learns that the eye rains over fifteen counties. You can certainly see the cathedrals of Worcester. Herefold and Clouester and more than three abbeys.

It i understantable that places which have given blume for it in beauts and health pesidding qualities, bould be regarded as untall ness for school. Though now surfails a London, uturil harrow-on the hill with it whosed of where singing wa cut off in the Creat War. Ringly, however has fame not only because of the school but because it was there that the football game learing its name came into exitence. On. Doctor's Wall, there is a tablet recording the exploit of William Webb. This who with a fin. In r.g. if for the Rules of Football a played in his time first teck the ball in his arms and ran with it, thus originating the distinctive fature of the Kuly's Game is in 1843. Therefor, we have the second at a attractive.



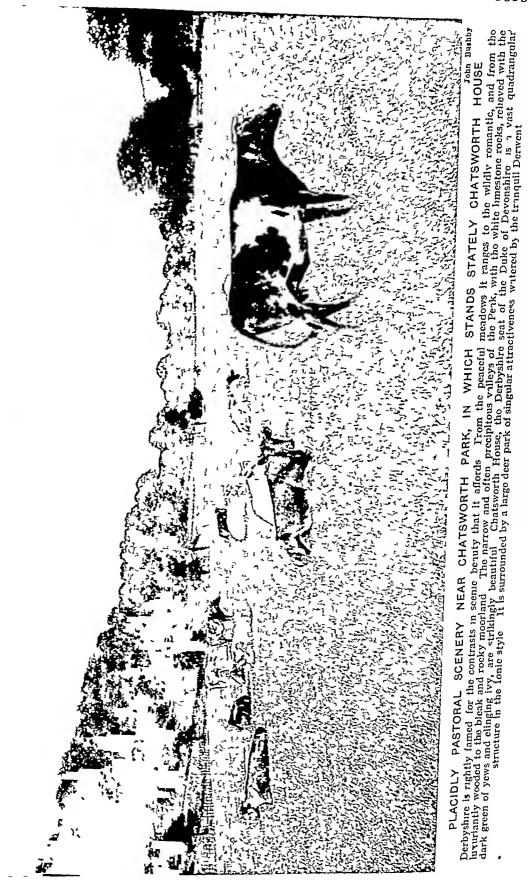
possible to MASSIVE NORMAN CASTLE AT OLD COLCHESTER IN ESSEX Concentration of the Colchester of Co

fine traditions, which has had the training in youth of many men who have contributed to the lustre of their country is particularly fortunate in its breezy bricing situation.

Notable too is I ugly, where in 1567 was founded the famous school which has had famous beadmasters like Dr Thomas Arnold—father of Matthew Arnold—and which has counted amongst its pupils Dean Stanley, Walter Savage Landor Thomas Highes, who wrote

Tom Brown's Schooldays C. L. Dodgson the creator of Alice in Wonderland and Rupert Brooke the poet places but knowing many lands I am quite positive taking all things into consideration there are no seaside places that surpa's those of England.

Brighton is the best known Dr Brighton it its sometimes called, and it is particularly beloved of Londoners. Indeed, it is London by the-Sea, for by express train it is only an hour away Hundreds of bestiess men live at Brighton and daily make the journey to London. To Londoners the escape to Brighton lor a week-end is always an invigorating experience. Immediately west of Brighton are resorts that are



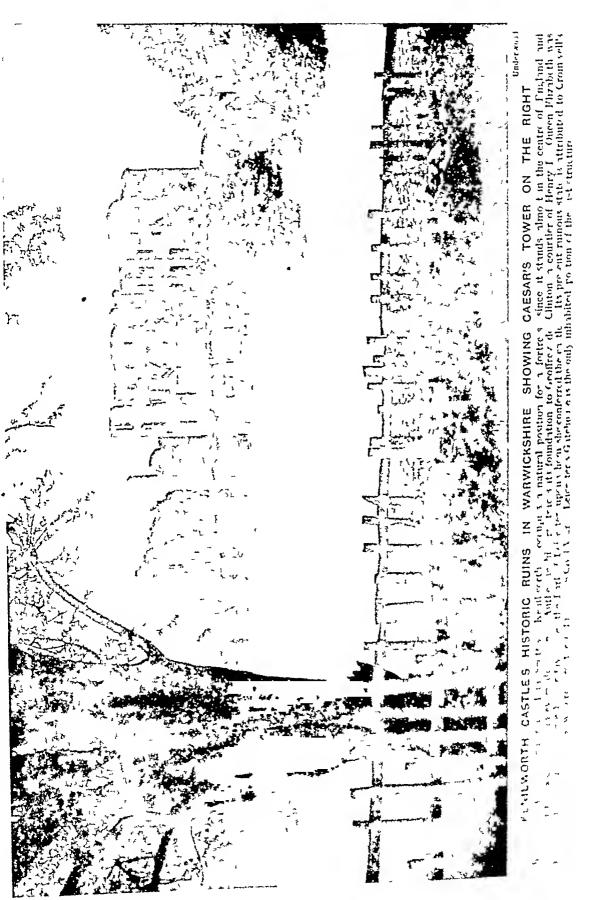


nuins of the Holy Ghost Chapel at Dasinostoke
Il short A. Ilaspe for is circular testre it also beneat early milet fama before
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as 4) emergy or found is 3 and defined adaptif Cerman atta. The automine
of inch is yakind many protocologic file of their is reclaim component of building in

sure of having some of the sun line that may be playing on our coasts. Hove next door Wortlang, Littlehimpton and Boenor

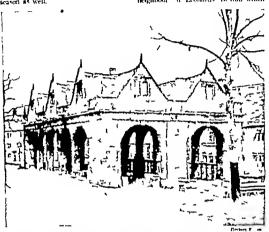
Taking a sweep round the coalt southwards from the Thannes to the Bristol Channel there is a series of towns which for health and charm are as far as I know unequalited for healthy making. There is Margate Superior

foll, (who have never been there) are inclin 1 to b, sarea to about Margate It is certainly very democratic, but alligations about vull arity and roads ness are not true. It is crowd d with families whose holday is limited to a fortnight or three week in the year and it is a pleasure to watch father mother and youngster getting every ounce of enjoyment they can. The variety of



amusements is inexhaustible. There seems to be something special about "Margate air. I has sometimes wondered why the enterprising local authorities don't provide for a winter season as well.

England and the Continent Then there is 1 obsessore with its plendid Lea. Ha tings of school book memories rapidly regaining favour after being rather eclipsed for some years like it neighbour 5t Leonards Bevlull which

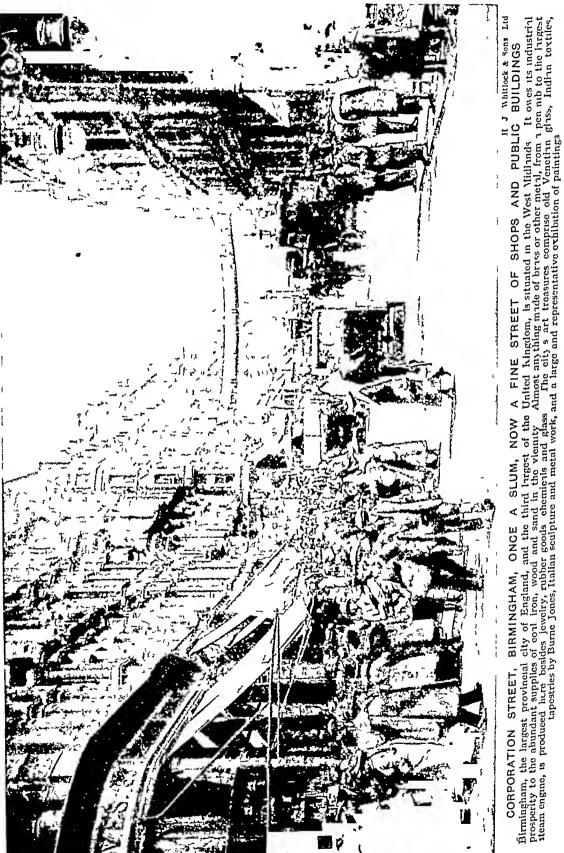


QUAINT MARKET HOUSE AT CHIPPING CAMPDEN IN THE COTSWCLDS Capping Camplein, Clowesterabler has more from 1 chium, is delightfulful and net let be as the form of the form when the amount was almost as the property of the statement acting your almost and part from the former impercance of the town. The charge I'm larger contains some the filterable critary braves.

Bearing round the exhibitating North-Foreland there is insidelled happy little Broadstales, with memories of Charles Dekens and Ramsgate appreciated by those who want air a little less exhibitating than that of Margate. Deal is an old time fishing town and some of the Deal beatmen seem to have step-ed out of the pages of one of W. W. Jacob's novels. Dover is not only in forters and the nearest port to France with enstant ferrying between the two countri's, but is loved by many people because of the unending interest provided by the constant stream of travellers be ween is new and good and, before rounding Beachy Head Eastbourne which is the seasede resort with style with much refinement and high-class entertainment much liked by ladies who have frocks to be changed several times a day since there will be other women to appreciate their merits.

We fly along the coast past the Isle of Wight the "Garden of England, to Bournemouth, a comparatively new resort famous for its gardens its pine woods and its concerts.

Many people like Weymouth, on the edge of Dorset and looking upon the





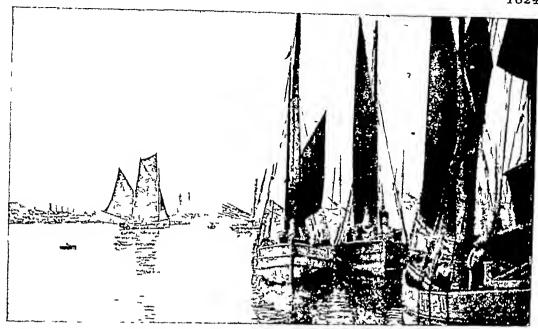
ONE OF THE FINE OLD TIMBERED HOUSES IN FORE STREET IPSWICH Ipsaks, Sedding, tend on the groung where it becomes the One. It is considerable port though a state troub the sequence board control for experience miss. According to missing bords and above are made here the there is also tobarco factory. I the dollar portion of the toes there are still see a statenth destines bourse.

Isle of Portland, because it makes few pretensions to catch the flippant boliday maker but appeals more to what may be described as people of substance There is a nice air of comfort and stoledity about the people taking their morning stroll along the front III was particularly fond of Weymouth and frequently stayed there at Glouce ster House now made into an hotel are many yachts in the bay and a regatta usually held immediately after Cowes week attracts many finely rigged racing yachts. With Portland Billfamous for its quarries and its convict prison now a Borstal Institutionacting as a shield from south-westerly gales, there has been constructed within its lee un enormous artificial harbour where practically the whole of the Home Fleet may be seen lying at times. And it is always a fine experience frequently allowed, for visitors to Weymouth to visit and explore great battleships.

Another popular resort on the south coast is Torquay with a climate which has been likened to that of Italy where tropleal plants grow in the open and where indeed the temperature is so mild that I have seen roses in full bloom at Christmas-time.

The last and most westerly of holiday places on the south coast is Penzance with the article colony of Newlyn only a few miles away Immediately opposite is St. Michael's Mount, very like Mont St. Michael over on the French coast, a mass of grantic, dormated by a castle belonging to Lord St. Levan and having communication with the main land only for an hour or two each day when the tide is low

On the north coast of Cornwall is Newquay with its big hotels and excellent golf Thriagel with its stories of king Arthur and his knights, and so by way of much photographed Clovelly up to the pecturosque watering-place of



RED-SAILED SMACKS OF THE FISHING FLEET IN LOWESTOFT HARBOUR Lowestoft stands on the Suffolk coast about 16 miles by rail from Yarmouth and just south of Lowestoft Ness, the most easterly point of England Primarily a fishing centre, it has developed into a popular seaside resort. The colourful ketch-rigged smacks are being displaced by the swifter steam trawlers. On the right of the photograph is one of the several fish markets.

Ilfracombe, which really has grand scenery, and to dear little villages like Lynton and Lynmouth

I know that many people express horror when great popular places, which appeal to the "mob," are mentioned Personally, I like them, in moderation, because seeing the "mob" thoroughly enjoying itself is a study I never miss That is why I like Blackpool, even on an August Bank Holiday Blackpool has none of the scenic attractions to be found at the other places I have mentioned, and yet, not even excepting Margate, it is the most popular seaside place in the country It is not because the bathing is particularly good it is one of the nearest seaside places to the millions of operatives in industrial Lancashire and Yorkshire

The amusements provided are not those which would appeal to the patrons of Eastbourne or Bournemouth, but there is a tremendous mass of them, and even Coney Island, in America, cannot surpass them in variety

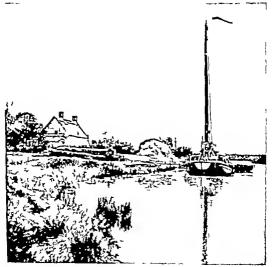
On the other side of England are several watering-places which have their particular call Whitby, a fishing town of jumbled houses over-looked by the ruins of Whitby Abbey, and the place where the ships were built which carried Captain Cook when he first circumnavigated the earth, Scarborough, with its Henry II castle, its shops, its cliffs and fine houses and wealth of gardens, Filey, a sort of paradise for Yorkshire families and, near the Bempton cliffs, a favourite breeding-place of sea birds, Bridlington, excellently situated, which could be made a more attractive place than it is

On the Norfolk coast there is Cromer, looking out upon the North Sea, as bracing a spot as you will find in the kingdom, much beloved by golfers, and where the abundance of poppies in the cornfields inspired Clement Scott to write "The Garden of Sleep," a poem once popular as a drawing-room song The very thought of Then Yarmouth Yarmouth brings the ozone into one's nostrils. mavbe because association of breakfast bloaters with the place once a famous scaport and now And what lover chiefly a holiday resort of Dickens can visit Yarmouth without re-reading "David Copperfield" and

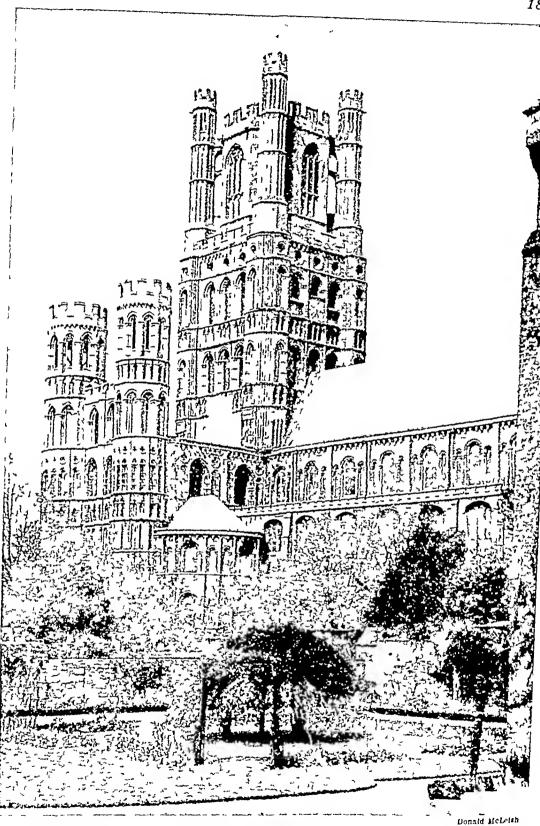
rejoking to renew acquaintance with the Pergotty family? From Yarmouth right down to the Thames there is a string of holidary places—Lowestoft and Southwold. Felvistone and Clacton and then Southend-on-Sea which "sleeps more men engaged during the day in London than any town that can be named, with a nice and pretty neighbour. Vesteliff

But having rigzagged the country and toured the three coasts, we are till far from exhausting the places worthy of being named among the towns of England. There are many towns which must not be overlooked. Certainly I should not forget Carlisle for as a Scot I am interested in a tradition of my family that in the times when there was

bennle fechtin on the Border two of my forebears were hanged at Carlisle for cattle lifting which is to be destinguished. I understand, from cattle therong. And there is Colchester of much renown in history but mainly proud that here the first English oysters were caten probably by some gournet of a Roman. The event is celebrated by an annual Oyster Feast, when the visitors of note, whilst saying the usual noce things, have



IRSTEAD ON THE ANT IN THE HEART OF THE NORFOLK BROADS
Barron Broad is drained by the Ant which flows into the Burn. The Broads are shallow mores
included by placed, stuggeds streams, having the low banks oncered with producion of havinant
included and water plain! Most of them abound in this and barbors immersible water fool and
arch rand water plain. Most of them abound in this and barbors immersible water fool and
arch requested by locating parties in a because it hamps black usins and execute in the photographs.



GRANDEUR OF THE CASTELLATED WEST TOWER OF ELY CATHEDRAL

Situated in the Isle of Ely on the left bank of the Ouse, Ely Cathedral Is one of the longest churche in England Abbot Simeon began its construction in 1083, and the architecture embraces every style from Early Norman to Late Perpendicular After the accession of William the Conqueror the isle became the last refuge of the Saxons under Hereward the Wake

In a con-prise, of there for many year axes led makin and a ference t what our great med a used to all "the occubent lavab."

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always (\*) to Stok. Peres and in the history of the Lar old church recite a much a you can remember of Cray's "Lings which we written in the very chartely at I

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theumitem. Buston to which you dv to drink waters to drive away your theumatem Harrogat the most enterprising of Linglish inland stars where you alternate drinking jungent waters that will cure anything, with sauntering in the gardens & tening to a sprightly orchestra. Il you have no ailments mental physical or domestic then you are a suitable candidate to go down to the old 1 sex town Dunmow and in accordance with ancient custom claim with your spouse a flitch of liacon. I cause on your oath you have never said an unkind thing to each other for a year and a day. But if you are disposed to picture-sque moodiness you can i let "—the lale of Man, the lale of Wight the Channel Land and the lales of Scilly. It is an old joke that the arms of Man const t of three legs with the motto. "Quorunque per us stabit which may be fresh translated that

However they fall they stand. The Manx cat minus a fail it quite a well known as Pu is in Boots of annual fame in Christmas pantomime. Manisca dear hitle stand, with valleys and head lands and customs that are cursous, but although I have pent two holidays there. I was never fortunate enough to hear the Many Language: though in some of the remote spotiast is still speken. Then ame Christian is peculiar to the Isle of Man.



LAND'S END, GRAND ROCKY PROMONTORY OF GRANITE FORMATION Some 293 miles from London lies the western extremity of England, Land's End a granite headland roofed by turf, its termination crumbled into great rock fragments, among which the white foam churns incessantly. Over a mile from this end of Cornwall the tall shaft of the Longships Lighthouse is seen, while on a clear day the Scilly Isles, 25 miles away, rest like light clouds on the western borizon

no doubt a memento of the time when the Norsemen had possession of it Two English families used to have lordship over the island—the Earls of Salisbury, who were crowned Kings of Man, and the Stanleys, Earls of Derby, who were content with being Lords of Man, because, as the fourth Earl of Derby said, he would rather be a great lord than a little king

Though under the British Crown, the island is not subject to the laws of the British Parliament, having its own executive authority, the Court of Tynwald and its House of Keys, said to be older than the House of Commons as a legislative body Douglas is a joyous town, with many amusements, and with probably the biggest dance halls in the world Though a holiday place to tens of thousands of North of England folk, there is something severe in the character of the true Manxman, about whom Hall

Came has written much in his novels. There is a different, gentler note about the Isle of Wight, which is reckoned part of the county of Hampshire Queen Victoria loved it, and for years resided at Osborne House, once a naval school. The adjoining little town of Cowes once a year brings together all England's yachtsmen, and Cowes Week, with racing in the Solent, is one of the aristocratic events of the "season"

The principal holiday place is Ventnor, near which is the village of Bonchurch, where there is the loveliest little church, flower embowered, I have ever seen in my life. And there is Carisbrooke Castle, where the hapless Charles I spent 14 months as prisoner. Whether you are content with Ventnor, or go to Sandown or Shanklin or Freshwater, associated with Tennyson, who lived at Farringdon and who wrote "Crossing the Bar" when he was crossing the

Solent, or seek lather in many of the hitle base, the label World is absorbed grackers and viation at a like a vine in an eligrant losso.

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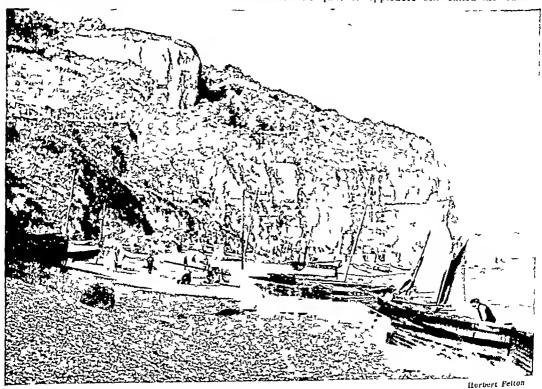
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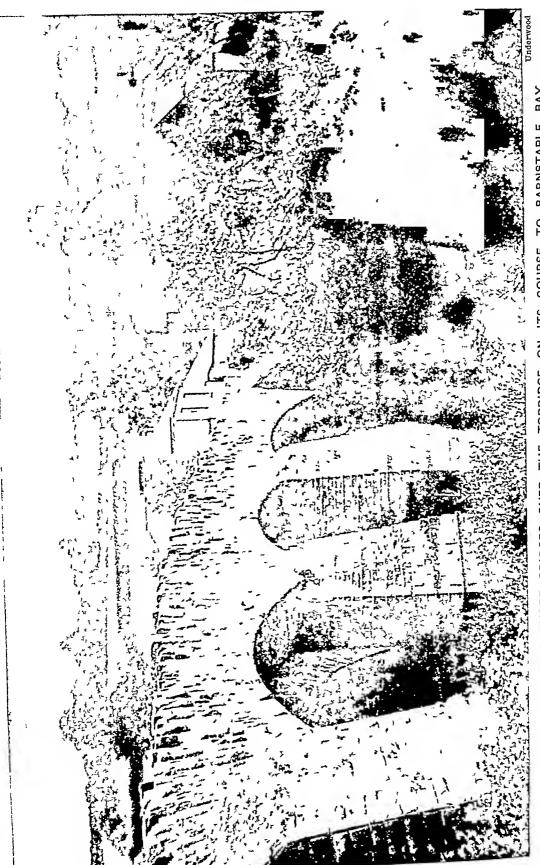
ABBEY CHURCH BATH KNOWN AS THE LANTERN OF ENGLAND
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and present floor specifical by bills. It is a great bathly brook only one of the subject of a star it is record to startly bills. It is a great bathly brook only it host princip.



APPLEDORE, DEVON, THE TINY PORT AT THE MOUTH OF THE TORRIDGE Appledore is really part of the port of Barnstaple, which has lost much of its trade through the silting up of the Taw estuary. The name is a corruption of Aberdour (Watermouth). Shipbuilding and fishing are the main industries. There are also dry docks. Hubba the Dane was defeated at Bloody Corner, near Northam, and buried under a cairn near the quay at Appledore, still called the Hubba.



CHALK CLIFFS OF A LITTLE FISHING-PORT IN SOUTH-EAST DEVON
Beer lies in a deep ravine opening on to the sea. The sheltered narrow cove suggests the seclusion which the Reer fisherfolk of a past generation found so convenient when cluding the vigilance of the revenue officers. Past masters in the art of smuggling, they have within the last half century adopted less restless pursuits and now engage in peaceful trawling and the manufacture of lace



Torrington is built on a hill above the wooded valley of the Torridge, about seven miles from Bideford. In the sixteenth century it was an important centre of BARNSTAPLE BAY 9 ONE OF TORRINGTON'S THREE BRIDGES OVER THE

The Clee and Vulvern Hills, on the western lank of the Severn and the Wrekin Clent Luckey and Cet with Hills on the eistern and are raffy effshouts from the Well in mountains.

The Devinian system occupes beyon and Cornwall. In the former ceritis there are will morelands from which sprin, heights compreed of the oldest rocks in the country. Yes Tor (2 sports) is the highest point of Durtmoor a rugged and Larren pluteau. In Corn wall there is Bruson Willy (1 roc best) from which the system declines to Land's Lind where the diff rise a hum dred feet at not the sea. The Quantick and Mentip Hill are offshed from the Devonius system.

### F. that Highlight and Phile.

The second line of clevation is of colitic formation, softer rock, that include limestones, sand tones multiplies and clays. Beginning with the Blackdown Hilbs in Devon the rile, sweeps round by Bath to I come a 1 sd exargment in the Cot wold Hilbs Edge Hill on the beders of Warsack and Oxford Street is the next highest bill ridge after which it crosses the country to the Lincoln Highs, and finally in the porth York moores rose to a soo leet.

Still lower to the third line of elevation constitute, of rout led gray y chall, bulle. They begin in Dowet and in succession form the bare plateau of Sabdarry Plain. Mariborough Downs Chiltern Hills and Ea 1 taglian Heights they reappear in the wold of Lincoln shire form the bock-dure Wolds and end in the bold chills of Tlamborough Head.

The North and South Downs are spurs thrown of by Sala bury Plain towards the east—the North Downs (97a feet) extend through Hampshire Surrey and Kent to the chalk chifs of Dover the South Downs Jermanate In Beathy Head.

The lowlands of Fingland, which account for about two-thirds of the whole area are marked off into five principal plans, which are more or less

connected with each other. The Vale of Vork here between the eastern lope of the Lennines and the hills of La t Yorkshire. The western plain west of the Lennines includes the greater part of Lancashir, and Chesbire. The central or midland, plain 200 to 400 feet alove the sea is higher than the non-frequency plain, although it connect them, it occupies the counties of Stafford Derlip. Leicester, and Nottmelian.

#### Reclamation of the Cen-

The 1 en is trict ((25 square miles) arrand the hores of the Walt is the most perfectly level portion of Lorlin I. At on, time little better than a morass at his been converted by min a highly productive drainac Not a little of the land has di toct liven reclaimed from the sea, from which it has to be protected by dykes as in Holland In the sex preenth century the Duke of Bedford expended larg sums in drainner, and hence the district is commonly known as the Bedford Level. The ea tern plain bounded on the west by the La Anglian Heights and the Chiltern extends from the Wash southwards to the North Downs. The Weakl of Kent abound in beautiful sceners.

#### Benefit I Alle the Tid I W ve

The coastline of England and Wales, owing to its numerous indentations, has a total length of about 3 000 miles or one mile of coast to 22 square miles of surface so deeply is the land pierced by the wa that every part of Lingland Is within 70 miles of the sea-Atlantic tidal wave paying up the west coast gives liristol an increased denth of water of over 40 leet and Liverpool of feet after going round the north of Scotland the tide gives Hull only an additional 18 feet of water and London 19 feet Regular and high tides are of immense service to shipping rendering diallow waters salely navigable and on the flood ships float to ports that are a considerable distance inland.

On the east coast, between Berwick and the Strait of Dover, there are only three large indentations. The Humber, the estuary of the Ouse and Trent, has a drainage basin of 9,770 square nules, the largest in England. Although impeded by sandbanks and shoals, seagoing vessels can get up to Goole, at the junction of the Ouse with the Don By means of navigable rivers and canals the Humber is connected with the Mersey, Severn and Thames

The Wash, into which the Fen district drains, is difficult and dangerous to navigate on account of shifting sandbanks. Much of the Wash will some day be reclaimed from the sea

# Features of the East Coast

The estuary of the Thames, which is six miles wide at the Nore, is not only England's chief commercial waterway but the most important in the world

The most easterly cape is Lowestoft Ness, in Suffolk, North Foreland and South Foreland, in Kent, are famous "white cliffs" of England The only islands on the east coast are off Northumberland, they are small, but one of the Farne Islands was made famous by Grace Darling's heroic deed in 1838 The Yarmouth Roads, between the coast and a line of sandbanks, afford safe anchorage for ships, and between North and South Foreland lie the Downs, a famous anchorage, protected seawards by the Goodwin Sands The Strait of Dover is a busy waterway to France, and much of the foreign and colonial trade of London passes through it

# Harbours of the South

On the whole the south coast is low from Dungeness, in Kent, to the Isle of Wight, which is separated from the mainland by Spithead and Solent, four and three miles across respectively. The island shelters Portsmouth Harbour aid Southampton Water, Portsmouth is England's greatest raval station, and Southampton is a busy port with important steamship services to America, South Africa and Australia

Farther west, in different bends of the coast, there are the harbours of Poole and Weymouth, followed by a wider bend containing Plymouth Sound and Falmouth Harbour, important natural shelters, and between Lizard Point (the most southerly cape) and Land's End (the most westerly point) there is Mount's Bay, on which stands Penzance

The Islands off the south coast are of considerable importance. The Isle of Wight has an area of 150 square miles, and is named the "Garden of England," because of its genial climate and beautiful scenery. The Channel Islands are quite close to France, and French is the common tongue of the people, but the islands have been attached to England since the Conquest. The total area is 75 square miles and the population 90,000. The climate is mild, and early vegetables are produced largely Jersey is the largest island.

Although a good portion of the west coast belongs to Wales, it may as well be viewed in its entirety. The three great openings are the Bristol Channel, Cardigan Bay and the large bend formed by the Irish Sea

### Britain's Largest Inlet

The Bristol Channel, leading into the estuary of the Severn, cuts so deeply into the land that the upper part of it is little more than 100 miles from This largest inlet of Britain London has a Welsh shore on the north, containing Carmarthen and Swansea Bays and Cardiff Roads, on the south coast of the channel there are Barnstaple and Bridgwater Bays Bristol is on the navigable waterway formed by the Avon before entering the estuary of the Severn The port had an early trade with the New World, it has a large fruit trade with the West Indies, and cocoa and tobacco are still its chief The size of modern manufactures vessels necessitated the construction of Avonmouth docks at Gloucester, on the Severn, the incoming tide forms a bore that hindered commerce, but the Severn Ship Canal



VISTA OF THE HIGH STREET IN TOTNES, A TOWN OF OLD OEVON. One of the delect if not the delect arms, rail beneath in T shad Triber is situation the return bank of their relact, inc mines cut if T organ letters. It count is being one Pag treet the lifeth better fainted by q this del bank of their pages letters. It is not the relaction of the relac

gives Gloucester a good passage to Sharpness for vessels of 350 tons

On the west coast of Wales there is Milford Haven, one of the finest natural harbours in the world, but too remote from the great industrial centres to be of commercial importance Cardigan Bay washes four Welsh countries Menai Strait, between the mainland and Anglesey (an island and a county), is 14 miles long with a width varying from 200 vards to two miles It is difficult to navigate for vessels of more than 100 tons, and the great shipping traffic to and from Liverpool passes the western side of Anglesev From the strait the land curves eastwards to the mouths of the Dee and Mersey The Mersey. though only 68 miles long, has an estuary known as the Liverpool Channel. which is one of the world's busiest waterways

# Carlisle's Lost Port

From the Mersey the coast trends generally northwards to Morecambe Bay, and then, rounding Cumberland, the land again curves in to form Solway Firth, which has part of the south coast of Scotland for its northern shore. The firth is stormy, and is plagued by a bore that sometimes runs six feet high and from eight to ten miles an hour, occasionally doing much damage to small shipping. Carlisle in olden times was a port, but lost its connection with the sea by the silting up of the firth

### England's Largest Island

The Isle of Man is in the Irish Sea, 75 miles north-west of Liverpool has an area of 227 square miles and a population of 60,000 It is rich in minerals, especially lead The island, after passing through various hands, was granted by Henry IV to the Stanley family, and later it passed to the Duke of Atholl, from whom the Crown purchased it in 1827 The island has a legislature independent of the English The chief towns are Parliament Douglas, Peel and Ramsey

The Scilly Isles, 25 miles south-west of Land's End, number about 140, but only six of them are inhabited. The largest is St. Mary's. The climate is moist, and so mild that sub-tropical plants grow out of doors all the year round. Early spring flowers—narcissus, lily, daffodil—are grown in immense quantities.

As England is a small country it follows that the rivers are of no great Those on the shorter slopes of the western highlands are swift and flow more or less in a straight line to their outlets But the rivers on the longer slopes, rising at no great elevation, have weak currents and they meander across the plains and lend themselves to navigation. The rivers may be arranged according to the watershed they drain. The main slope is towards the east, the shorter slopes towards the south and west eastern slope is the longest, and contains several streams with lengths of between 150 and 200 miles

## Inland Navigation by River

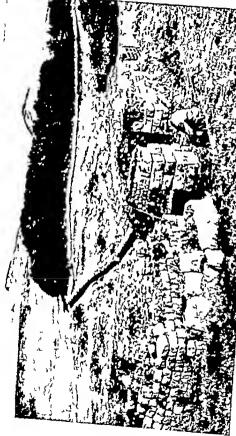
The eastern watershed is drained by the rivers that enter the North Sea The Tyne and Tees, each about 70 miles long, are the outlets of the great Northumbrian coal-field and the Cleveland iron district. The Ouse (150 miles) and the Trent (180 miles) between them drain an area of nearly 10,000 square miles into their joint estuary, the Humber. The Ouse is navigable from the Humber to York, and on the Trent barges can reach Burton, 105 miles from the estnary.

The Thames (210 miles) has a noble estuary which is the chief commercial waterway of the world. London has been a port since the times of the Romans. The river supplies the city with a great deal of its water and carriemich of its sewage to the sea. The largest ships can enter Tilbury Docks, 26 miles below I ondon, but we its of Soo tons can ascend to the Pool at London Bridge, and barges can reach Lechlade. 120 miles from the Nore.

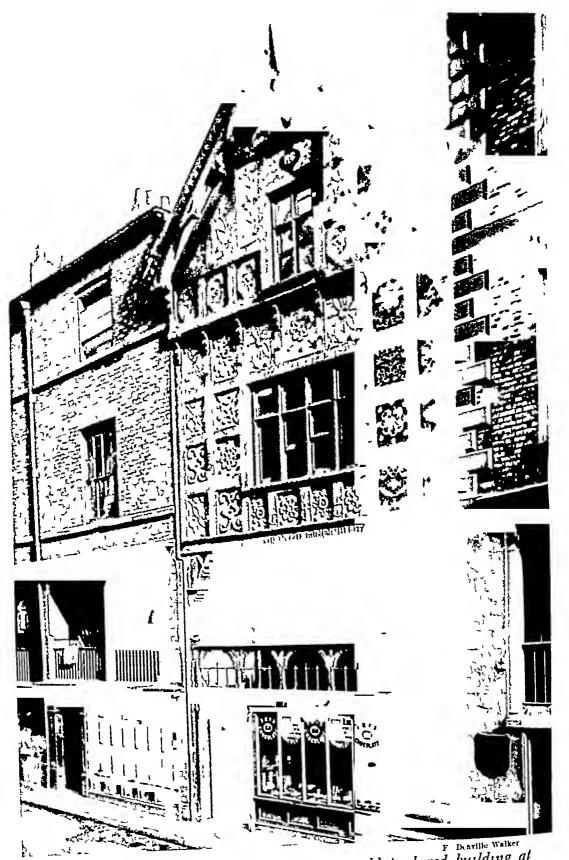


ENGLAND In Charlon Forest on the Sussex Downs are magnificent beeches—century old grants among the finest in the south of England
1837 183





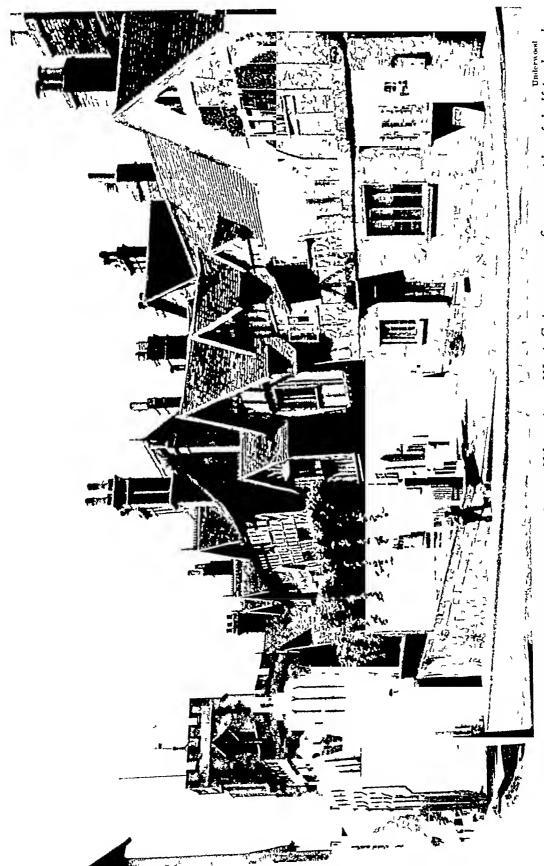
This section is serven miles arest of Corbridge Excisavo Onguelli extending from Volent Firth to Ballsend the Roman runpart 73 miles long was buill by Hadran as a protection against the introblact northern tribes. This section is seen miles was buill by



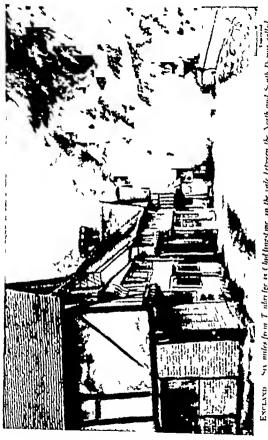
ENGLAND God's Providence House, an old timbered building at Chester, said to have been so named after escaping the Great Plague



ENGLAND A well preserved building of the sixteenth century with pargeled façade Sparrone & Hause stands in Ipswich & Buttermarket 1881



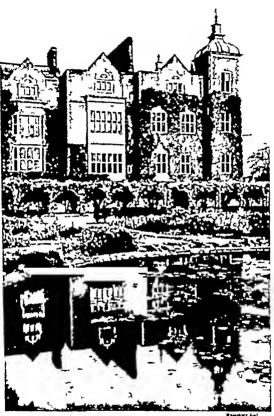
ENGLAND In ancient Warwick, close to the twelfth-century West Gate, rises a fine example of half-timbered architecture of the late fourteenth century—Lord Leyecster's Hospital, an asylum for twelve poor brethren



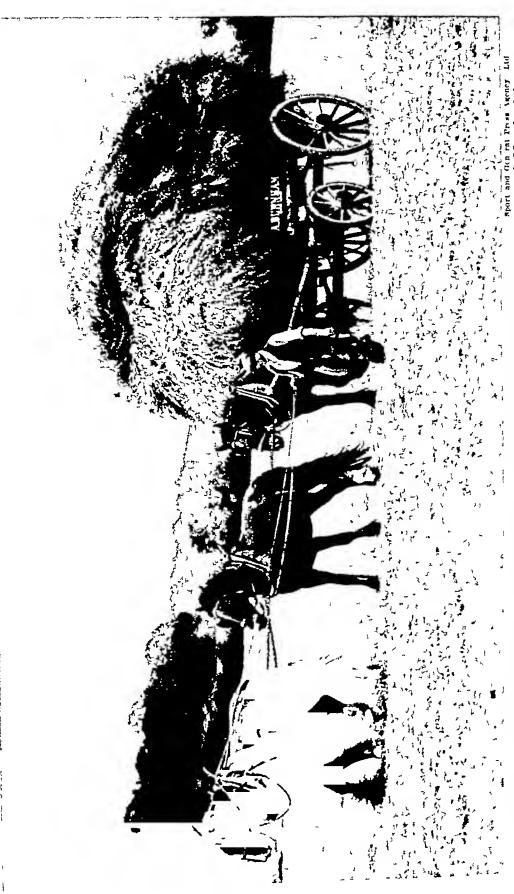
Sex miles from Todactice is Child hingstone in the rate tetraces the North and South Devies all. If the all world are numericed to modernite has perceded on an settings for coronal graph plays.



ENGLAND The Weavers' Hall at Canterbury is a relic of the Walloons who brought silk weaving to the city in the sixteenth century



Froland Standing in lovely grounds Hatfield House, Heriford skire seat of the Cecils is a fine Jacobean mansion built in 1610-11



Excrave Hara ding hay on a farm at Barnet - Though such a scene is common in rural Hertfordshi highly cultivated agricultural county, it excites a feeling of surprise when encountered so near London



Exercisty from a fonds continuous much rominitaritatism so so soll a composa exemplant of cliff and cure and dreined the Exclise I have beetle partins I the ex



ENGLAND Boscastle Harbour's mouth is flanked by steep slopes of wild waste land typifying the stern beauty of the Cornish coast 1848



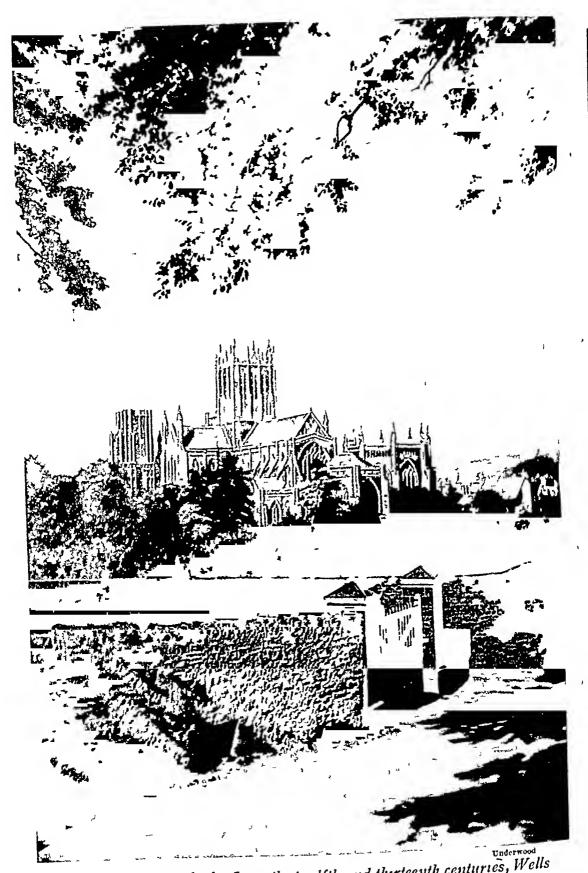
ENGLAND Monsal Dale, an enchanting valley watered by the live in the Peak District is a favourite resort with lovers of rural scenery 1849



England Lying on the Thames, twenty-two miles from London, New Windsor is dominated by its famous castle which was founded by William I and has been for more than eight centuries the home of England's sovereigns



ENGLAND I quiet little port reatering place and inshan district pursuits go hand in hand. Love is set on both sides of the e turn. I



ENGLAND Ruilt chiefly in the twelfth and thirteenth centuries, Wells Cathedral, Somerset, is a grand type of Early English architecture

them unmistal able oceanic influence. In the hottest month (July) they modify the heat, which otherwise would have a much greater mean temperature than 61.5° I in winter the effect is not less marled for the south-west wind, sweeping up the Bristol Channel and thence across the country along the edge of the oolite escarpment, pushes the centre of cold from the Midlands to the east coast. A similar wind up the estuary of the Mersey is of considerably less effect, for it is deflected and largely lost by blowing squarely against the Pennines.

# Mountains and the Rainfall

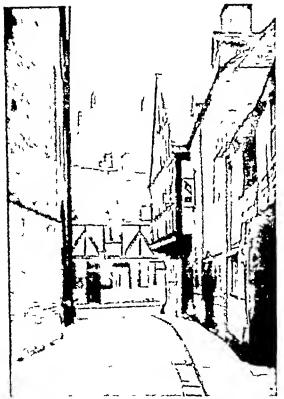
The mountain chains in the west, while they condense the warm westerly winds that strike upon them, are not high enough to prevent a great deal of moisture from passing to the eastern side of the country. The heavier rainfall on the western side of the mountains gives rich pastures to the west, while the eastern region yet sufficient moisture to grow corn general cheet is well illustrated in the central belt of country from west to On the lower constlands of Cirdigin Bay the rainfall is from 40 to 60 inches, in the Welsh mountains it is from 60 to 80, in the border counties from 30 to 10, except in the neighbourhood of the Shropshire heights. where it is from 40 to 60 inches, and across the remainder of the country to the cist coist it averages from 25 to 30 except in Lenland, where it is less than 25 meles

winter temperature would be higher. The absolutely wettest region in England and Wales is around Snowdon where the annual rainfall is about 200 inches the next wettest is Cumberland especially in Borrowdale, the driest is round the Wash and the estuary of the Thames.

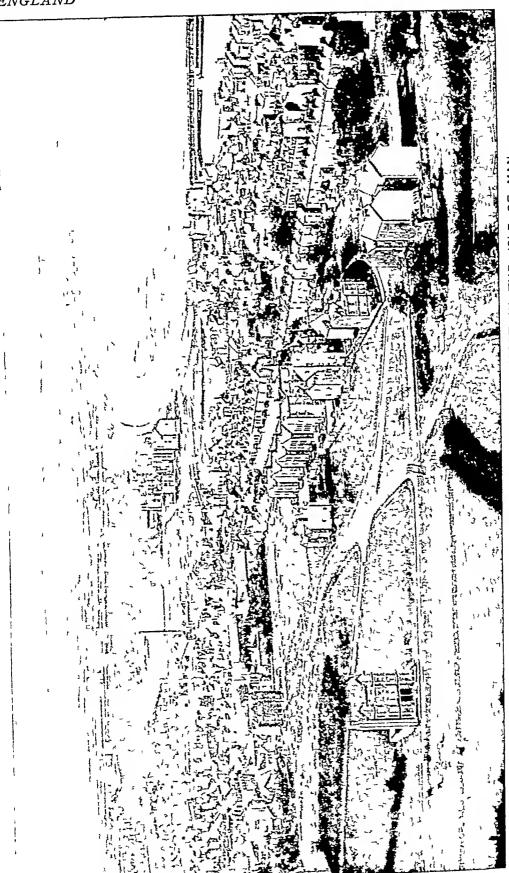
The mean annual temperature of England is 50°, varying from 52° in the Scilly Isles to 48° at the mouth of the Tweed, the annual rainfall averages 30 inches, and what is of immense importance, it is pretty evenly distributed throughout the year. On the whole the climate is mild, equable and salubrious, it is sufficiently hot in summer to ripen fruits and corn, but not too hot for labour to be endured all day, and in winter it is not cold enough to bring outdoor labour to a standstill

# Important Artificial Vegetation

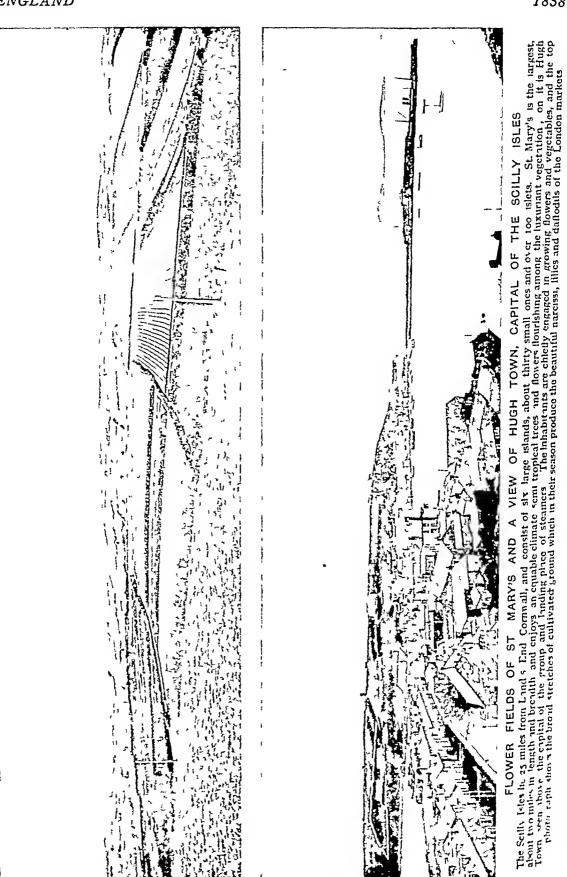
England falls within the North Euro pean region that is generally characterised by the luxurance of the pastures, and numerous forests in which the predominant trees lose their folinge in winter Thanks to the general humidity and mildness of the chinate, the country exhibits a constant state of verdure. There is scarcely a simple plant in the island that is not found in In ancent the neighbouring continent times England was covered largely with forests in which the chief trees were oak, clin birch beech, pine ash Although there is now an absence of extensive forests the country t



TEM FIS Y ASSET T MEN FROM AN CLOWN IN STREET



Although part of the British Isles, the Isle of Man in the Irish Sea has a government and constitution of its own. It lies 27 miles from the west coast of England and has an area of 227 square miles Mountainous in the north, it has a wealth of picturesque scenery, and as a pleasure resort and beauty spot it attracts innumerable visitors. Ramsey, a town of some 4,300 inhabitants, is situated on the bay of the same name, which has a grand sweep of ten miles. Though quieter than Douglas, Ramsey is a great holiday resort with an excellent sandy beach, beautiful promenades and a pier 2,300 feet in length RESORT A POPULAR PLEASURE



manufacture of cotton goods is confined practically to Lanca line in which county there are north 57 million puddes or more than one-third of all the puddes in the world. One-fuffing the manufactures are for the home market and the remainder for export India's generally the principal cut where and Lexipt and Australia buy largely.

The woolkn mill are chiefly in york here with Leeds and Bradford the centre of a group of woollen towns. There are large manufactures of inscellancou textiles as lace howers worsted carret etc.

The metal in lutures are located on the coal fields. The clust pronounciting centres are. Harrow Middle-lwough Rotherham Black Country, etc. In 1913 there were 335 Hast lutrices at work, producing more than to 200,000 tons of pig into lutrin 1923 only to furnaces were in operation producing 7,437,000 tons. The steel production 3,437,000 tons. The steel production was 8 550,000 tons. In 1884 England production of pig iron was nearly double that of the United States in the next xenity years the position was reversed and since their England has fallen still further find tents.

#### Machinery Mad Where Used

Although everything in iron and steel is produced on all the English coal fields, some districts specialise in certain directions. Birmingliam and the Black Country are the hardware factories of the world the productions including everything from a pin to a steam engine from a button to an Immense bridge girder Sheffield makes fron and steel plates, and is preeminent for cutlery Dudley di trict for chains and Type and Tees districts for cables heavy ironwork railway plant ord nance etc. The machiners for the different manufactures is generally made in the district in which it is used. Thus in Manchester Oldham and Rochdale for cotton machinery in Leeds Brad ford and heighley for woollen similarly agricultural implements are largely made at Lincoln Grantham

Peterloorough and Norwich Railway ecomotives are constructed by the great railway companies in what have become railway town as Crewe Swindon. Its tlegth and Doncast is The electrical induity is large especially in London Manchester Burningham and other machinery centres. London La great manufacturing centre for furniture clothing chemicals and railway plant and it is size of the largest engineering centres of the world.

#### Local Special region

Larthenware is produced mainly in North Stafford-dure at Stoke-on Trini and neighbouring towns known as the Pitteries." Northampton Larcester and Stafford are noted for boots and hoss. Newcastle and Stillelens for glas. Widnes kuncern and Oldbury for chemicals.

The excellence of Briti h hipbuikling is reflected in Britam's maritime supremace. The chief Linglish yard are on the Type Wear and Tees and at Barrow Hull and Bukenhead. There are naval dorkyards at Chatham, Steerness Portsmouth and Devonport.

For easy means of transt by river and canal, road and railway England is untivalled. There are nearly ,000 miles of canals the public roads have a total length of 150 000 miles and the railways more than 16,000 miles. Much more effective use might be made of the canals if the railway companies had not been permitted to become canal owners with a view to preventing competition.

#### Read ad the Motor Traffic

Nevertheless these waterways carry more than 40 million tons of minerals chemicals and general merchandise. The Manchester Ship Canal carried nearly six million tons of sca-borne traffic before the Great War after which this traffic was reduced by about a half.

Owing to the increasing importance of motor traffic great improvements are being effected in the roads, costing as much as £50,000,000 in a single year

England, the birthplace of the railway, has a close network of rails over the coal-fields and industrial districts, and they penetrate into the less populated regions as branches of the trunk lines, of which there are nine radiating from London. For regularity, speed and safety British railways are not equalled in any other country. The English and Welsh lines were worked by 27 companies until 1923, when the whole of the railways in Great Britain were organized into four great groups for more economical and effective working.

## Progress in Transport

During the present century electric railway traction has made great progress, specially in the metropolitan area, where underground tube railways deal with a huge city and suburban traffic

The railways in Great Britain in 1913 carried nearly 1,185 million passengers (excluding season-ticket holders), and the goods traffic totalled 364 million tons, in 1921 the passengers were increased by 33 millions, but the goods decreased by 44 million tons

There are regular air services London—Paris, London—Rotterdam, London—Amsterdam—Berlin In the last named the journey of 673 miles takes 8½ hours, including halts at Amsterdam and Hamburg A service of airships between England and Australia has been approved The air vessels will be of 150 tons displacement, carrying 200 passengers and 11 tons of mails and merchandise The estimated time-table is London—Egypt in 2½ days instead of 6 days, Bombay, 5 days instead of 15, and Australia 11 instead of 28 days

### Vast Communication System

The British telegraph cable systems are more extensive and perfect than any other country can claim. Of the world's total cables of 298,000 miles, British companies own 130,000 miles. The greatest cable in the world was completed in 1923 between Westonsuper-Mare and Long Island.

During the year 1922 the Post Office despatched 87 million telegrams, and the telephone calls numbered 872 millions. The telephone stations number about a million, and there are more than four million miles of wires. The number of telephones in Great Britain is two per hundred of the population, as against six in Sweden and thirteen in the United States of America.

Occupying a most favourable position for ocean communication with all other places, England's mercantile navy not only maintains regular services on all the great ocean routes, but her tramp steamers traffic in all the seas of the world wherever there is a cargo to be picked up. British ships carry an immense amount of freight for other nations, and a great number of ships sailing under foreign flags were built in British yards.

# Balance of Imports and Exports

The figures for 1900 were not only a record, but they showed an increase of no less than 63 million pounds on the previous year, the largest yearly increase since 1880, when the total trade leapt by 86 million pounds It was true that imports exceeded exports, which the pessimists claimed was a sign of economic decay Imports, however, began to exceed exports as far back as the 'fifties In any case an excess of either imports or exports is no reliable guide to commercial prosperity or the reverse The value of exports is increased by freight charges and traders' profits, to which may be added income from foreign and colonial investments, which are a form of "invisible exports" that go to make up the balance between imports and exports

At one time British commerce was double that of any other country. In 1908 the trade of Germany amounted to 690 millions and the United States to 630 millions. The latter, with immense natural resources and more than double the population of Great Britain, must of necessity overtake and pass her sooner or later.





GATEWAY OF THE NORMAN CASTLE OF CARIBBROOKE, ISLE OF WIGHT Carthrooke Castle pear the III or of Carl brooke abrit on mile stull et of Nespert, was founded by any Norman inner as factors for the defense of the life of Wight. The keep has added in the return of livery 1, and 1 tunded in the return of livery 1, and 1 tunded in the return of livery 2, and 1 tunded in the return of livery 2, and 1 tunded in the return of livery 2 or 1 to 1 tunded in the return of livery 2 or 1 tunded in tunded in

Before the Great War half the world's shipping flew the British flag In 1922 the total number of vessels afloat of 100 tons and upwards was 33,935, aggregating 64,370,786 gross tons, of which the British share was more than one-third—namely, 11,321 vessels. totalling 22,042,520 British however, include a ships, proportion of the largest great vessels, and in particular predominate on the great routes Unfortunately there are far more ships to-day than are required for the goods awaiting carriage

# Vital Shipping Statistics

In 1913 the total ocean shipping entered and cleared in Britain's home ports was 116,883,000 tons, and in 1922, 103,006,000 tons Of the tonnage entered in 1922, 66 per cent was in British bottoms, and of the tonnage cleared, 62 per cent Of the total tonnage London claimed over 21 million tons and Liverpool over 18 million tons, or nearly a fourth of the whole for those two ports alone Cardiff. Newand Shields, Southampton. Glasgow and Hull, in the order named, dealt with about another quarter

The coasting trade of the kingdom in 1913 was 130,000,000 tons, this had decreased by a third in 1922

### Growth of Cities at Rural Expense

Before the enormous rise of England's manufacturing interests in the latter half of the eighteenth century half of the then population of eight millions was engaged in agriculture In 1021 the population of England and Wales was 37,885,432, of whom more than 30 millions lived in towns, and only 1,260,000 were engaged in agriculture and fishing There is still a steady migration to the towns In 1891 72 per cent of the people were urban and 28 per cent rural, in 1921 the figures were 79 and 21 respectively At the census of 1921 the industrial workers numbered 9,468,000, commercial, 2,214,000, domestic service. 2,121,000, agriculture and fishing,

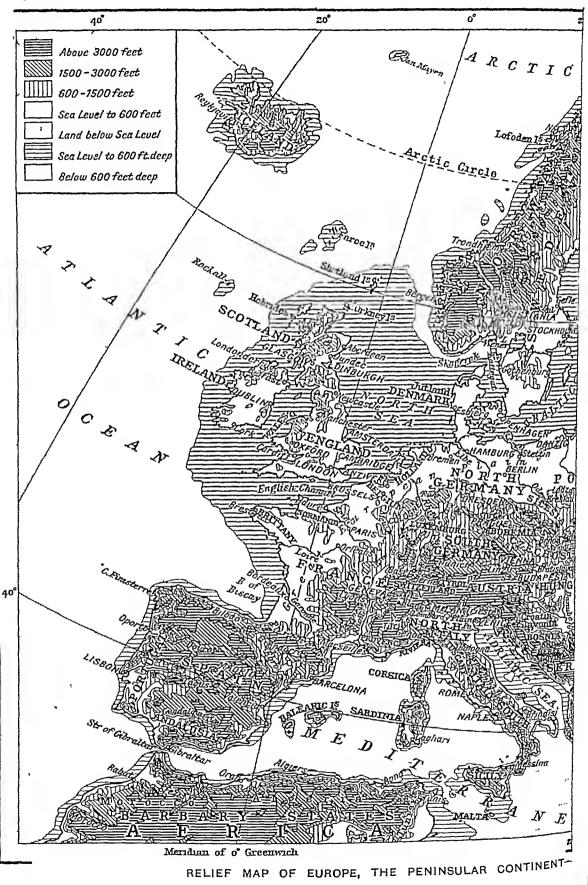
1,260,000, professional, 714,000, Government, 300,000, and the unoccupied persons numbered 2,208,000 men and 12,234,000 women

Greater London, with a population of 7,476,168, or more than one-fifth of the total population of England and Wales, is not only the capital of England but of the British Empire It is the largest city in the world, half as large again as the city of New York, the next in size, and about equal to Paris and Berlin combined The next largest cities in England are Birmingham (919,000), Liverpool (803,000), Manchester (730,000), Sheffield (490,000), Leeds (458,000), and Bristol (377,000) There are nine towns with populations of between 200 and 300 thousand, and 20 with populations exceeding 100,000

# Problems of Health and Housing

The congregation of vast numbers of people in limited areas gives rise to slums, that present great problems in housing, sanitation, etc. There have long been model garden villages at Bournville and Port Sunlight, and there is now much attention paid to town planning, in which direction Letchworth is the largest example, while a number of cities have laid out garden suburbs to assist the normal growth on healthy lines

The local government of the country is carried out under the central control of the Ministry of Health, whose efforts during recent years are crystallised in the results The death rate in England and Wales in 1921 was 12 1 per thousand as against 14 3 for the ten years previous The actual number of deathswas 458,710, the smallest total since 1862, when the population was little more than half that of 1921 In 1901-10 the mortality of infants under one year of age was 226 per cent of the whole deaths, it was reduced to 153 per cent in 1921 The medical war on tuberculosis is showing increasingly good results, but the cancer scourge, which in 1888-91 accounted for 6 6 per cent of the deaths of persons of 35 years and over, had risen to 15 3 per cent by 1921





This was the south-east coast of ancient Arctis of which Finland, Norway, Sweden, the northern half of Scotland and the north-west of Ireland are relics All these areas are old land, the worn-down stumps of ancient mountains, scarred and hollowed by the passage of glaciers during the Ice Age, overlain with glacial debris in long moraines, and diversified in scenic features to-day by lake and fell, moor and forest, stream and waterfall

### How Europe Rose Out of the Sea

About the period when the giant club mosses dominated a landscape of swamp and marsh, when the land south of the ancient plateau was covered with the jungle forest from which our supplies of coal originated, giant forces gradually raised an east-west system of mountains roughly along Lat 50° N These old Armorican and Variscan mountains are left to us as the heights of South Ireland, South Wales, Cornwall, Devon, Brittany, the Ardennes, Eifel, Vosges, Taunus, Hunsrück, Harz, Black Forest, Ore Mountains, Giant Mountains and Sudetes

Almost equally ancient are the Old Plateaux, the Meseta or Spanish plateau. the Central Massif of France, Russian platform and the ancient plateau of the Aegean Between the relics of Arctis and the later old mountains lies the Great European Plain which has experienced the tropical jungle climate of the Carboniferous period, the torrid Saharan dryness of Triassic times, the tundra and frozen conditions of the Ice Age The story of the Mediterranean Sea will described in a separate chapter, the founderings of large blocks of the earth's crust which led to its formation are associated with the upheaval of the Alpine system, the youngest of the mountains of Europe

### Legacy of Rivers from the Ice Age

The Alpine system is part of the great east-west system of fold mountains which extends across the south of Eurasia from the Pyrenees and Sierra Nevada to the Himalayas, including within Europe the Alps themselves, the Carpathians, the Balkans and the Caucasus Within the folds of this sinuous system the Alfold of Hungary and the plain of Lombardy are the youngest land of Europe, hollows filled with the off-scourings of the Alpine chains

The shape of the Alps was controlled by the earlier mountains, but neither ancient plateaux nor mountains, whether old or young, have been responsible for the drainage system of European rivers and lakes Most of the rivers are due in origin or direction to the harsh glacial conditions of the Ice Age, and most of them flow across the six orographical The Garonne, divisions outlined above Guadalquivir, Don and Volga probably owe most to the orographical development of Europe The Elbe, Oder and Vistula are in part misfit rivers in the older, larger valleys of glacial rivers, the Seine and Loire, Elbe and Rhine cut across the old Armorican mountain system, the Danube crosses the Alpine system between Linz and Bratislava Most of the and at the Iron Gates lakes lie in hollows in the plateaux or in valleys in the mountains either carved or dammed by glaciers or their deposits The plateau lakes of Finland and South Sweden are comparable with the lakes The lochs of Scotland, the of Canada larger Alpine lakes and the tarns of the High Tatra are paralleled in New Zealand and among the Rockies

# Valuable Bodies of Ore

The mineral sequence tin, copper, zinc, silver and lead, the consequence of intrusions of free flowing lavas, occurs in relation to the older rock areas. Tin ores in Cornwall and lead and copper ores in Derbyshire are almost exhausted, but zinc on the edge of the Ardennes in Belgium and copper on the edge of the Meseta or plateau of Spain, and in conjunction with silver in the Harr Mountains, are valuable ore bodies. The more viscous lavas are represented in Europe by the iron ores of North Sweden, North Spain, Luxemburg and

1868 **EUROPE** 

sheep-like goat, for example, of south Russia The typical evergreens and maguis of the Mediterranean are likewise a product of the seas

On the coastal margins from time immemorial the dweller has mainly depended for his livelihood on fish food The domestic harvest became a business, and the fishing industry gradually attained a high position in world coinmerce and made possible the distribution of this sea product into the remote interior of the continents Most important of the European marine fisheries are those located in the North Sea and off the Norwegian coast, where fish accumulate in considerable quantity, being probably drawn southwards to these warmer waters from the Arctic Ocean

Hand in hand with the fisheries goes agriculture The bulk of the people of Europe is engaged on the land Land hunger is universal, but nowhere except in Western Europe is the land parcelled out so successfully in smallholdings

This has been done with outstanding success in Denmark, where a highlysystematised code of agrarian laws is in force and where a State aided cooperative system is employed in farming

In Belgium also where the land is apportioned in small quantities five hundred acres is regarded as an exceptionally large estate The changeable weather, the forest clearings, the necessity for plants and animals of definite breed and of high quality, all forced the Western Luropean to an intensive agriculture which is without parallel in other areas occupied by peoples of European stock

Add to this natural development the accident that coal and iron occur most extensively in the area where the sea influence is most pronounced and consider that this sea is an open highway across which European pioneers have fared, and out of their gains abroad have enriched the homelands, and so return to the starting point Europe, by nature, is a peninsula of peninsulas, and whatever in Europe partakes least of this semi-insular environment is to that degree in Europe but not of it

#### *EUROPE* GEOGRAPHICAL SUMMARY

Location 35° N to beyond 70° N at the North Cape, 10° W to 60° E With the zone of Bordeaux, Marseilles, Genoa, Milan, Belgrade and Bukarest, 40-45° N (Cf New York, Pittsburg and Salt Lake City) New Zealand is the antipodes of N Spain

Physical Divisions North-west heights in Scandinavia and Scotland Fragments of Armorican Mts in Brittany, the Harz, the Ore Mts, etc, the block mts of Middle Europe Ancient plateaux—the Spanish Meseta, the French Central Massif, the Aegean plateau, and the Russian platform Great system of eastwest fold mts—Sierra Nevada, Pyrenees, Apennines, Alps, Carpathians, Balkans, Caucasus The Great European Plain crossed by numerous great rivers, many of which are misfits, since they cut across the true grain of the land—eg, the Thames, Rhine, Elbe, Dineper

Climatic Divisions Southern edge of the peninsula, Mediterranean type, with hot dry summers and warm wet winters Western edge of the peninsula, West European type, a product of the sea, with mainly warm, wet cyclonic westerly winds and rain at all seasons, an area of abnormal winter warmth without floating ice on the Narrow Seas The core of the peninsula a transition area where the climate depends upon the play of three great permanent pressure belts, the eastern high pressure, the Azores high pressure, and the Icelandic low pressure The base of the peninsula in the east, a continental climate of steady sameness, with strongly marked seasons, a monotony of weather in tune with the monotony of the landscape

Vegetation From north to south tundra (v Arctic Lands), comferous forest (v Finland), deciduous forest (v Czechoslovakia), steppe grasslands (v Hungary, Rumania), Mediterranean evergreens (v Spain, Corsica)

Products About half the world's wheat, cats and barley and nearly all the rve.

oats and barley, and nearly all the rye, A third of with a little maize and rice the horses and sheep, nearly half the pigs, and about a quarter of the world's cattle About half the world's sugar supply from the sugar beet. Half the world's cool took of the sugar beet. world's coal, iron ore, pig-iron and steel A large proportion of the world's textile The conand engineering manufactures tinent has supplied a more or less continuous stream of human beings for more than two centuries to people the vacant spaces in the New World

#### LIII ISI ANDS

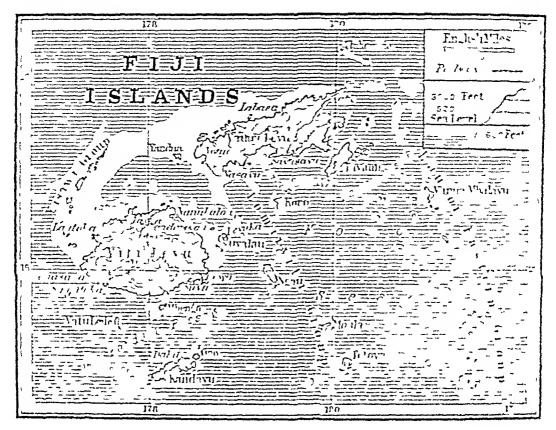
# Archipelago Born of Coral and Volcano by Sir Basil Thomson, i co

four distinct crising so near together and so de tant from other I land, that they are counted as one. The Lau sub-croup extending north and worth acts a a natural breakwater on the imme listely to the west is the group of Lomantit (Makile I m) which includes a manufact of inhabited island of no great size Of the large I Jan b Viti Levu and Vinna Levu (Creat Dil and Cr at Land) and their les er nefehlesurs Taymni and handayu Vanua Levu and Taviuni he upon the meridian and to the westward of these the sub-group Yasawa Iving north and for that f t g t The food and

are others in the i land of Neau and I lave my If note I evalence in the ut leaved coral felical Vatu Leile which is honeycombed with caves that the stalagmit pillars have been cleanly broken asunder by a linking of the floor ault exently for the cuts were still clean, showing that there had not been time for the drip of time water to I gin the process of reuniting the my ive columns. Larthquake shocks are occasi mails felt pumice is washed up on the bracker The volcame tructure has an important bearing on scenery an 11 relies

7 Starks

FIJI ISLANDS 1870





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LOADING BANANAS ON THE REWA IN THE ISLAND OF VITI LEVU

For the last few miles of its course to the Koro Sea shallow draught vessels can navigate the river Reva, and this is of inestimable value to the planters. The bananas are exported in a green state to New Zealand, and boiled green bananas form a part of the staple diet of the natives, together with two yams and taploca. The rafts in the photograph are cunningly contrived from bamboo poles.

1873 LIII ISLANDS



ON THE REWA HEAR THE SMALL BETTLEMENT OF NAUSON!

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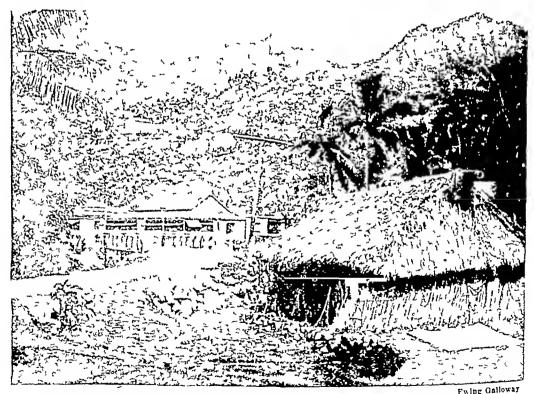
FIJI ISLANDS 1874

grassy slopes and the wayfarer puts up a myriad grasshoppers which are pursued by black and white shrikes from their perches upon the pandanus trees

The most valuable of the timber trees are the "dakua" (Dammara vitiensis) and the "vesi" (Afzelia bijuga), a hardwood used by the natives for their house-posts and canoes The "dilo" (Calophyllum mophyllum) yields an oil used as a remedy for rheumatism the lee side the pandanus and the acacia are plentiful The natives cultivate the paper mulberry ("ması") for the sake of the bark which is beaten into the semblance of cloth, the coconut. which thrives only near the sea, the breadfruit, plantain and sugar-cane The lemon, the "wi" (Spondias dulcis), the "kakiva" (Eugenia malaccensis), the "ivi" (Inocarpis edulis) grow wild The yam and the "dalo," for which irrigation is necessary, are the staple roots and the kava root is grown for the national drink

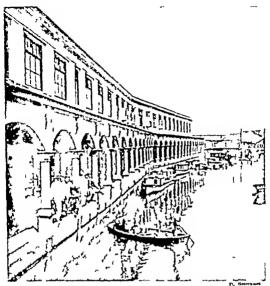
Many new plants have been introduced by Europeans A large area of the deltas is under sugar-cane and China bananas Orange trees flourish but the fruit remains green when ripe Cinchona and vanilla thrive when properly cultivated The coconut is grown in plantations in the windward islands Tea thrives in the highlands and coffee was grown with success in the early years of the colony Potatoes grow very well if the seed is imported from New Zealand but will not grow from seed produced in the islands

Cattle and sheep do well on the native grass, though it has sometimes happened that the cattle have run wild and become a scourge to the natives, who suffer also from the depredations of their pigs. The planter, even with small capital, may be very prosperous despite hurricanes and disease, the hurricane months are January and March. If a banana plantation is unfortunate enough to lie in the track of the axis of a cyclone the



APPROACHING A VILLAGE ON THE MOUNTAINS BEHIND SUVA
White bungalows of wood and corrugated iron are dotted over the green slopes of the mountains
behind the capital. The native dwellings of which the framework is timber and the rest lattice
and thatch, are ingeniously constructed with a raised floor covered with mats. There are few roads
in Fiji except at Suva and Levuka, and the internal communications are made by water.

1875 FIJI ISLANDS



COLONNADE OF THE DUSINESS MOUSES ALOND THE FRONT AT SUMA Only the row based of term owar; if yet I peak bear of the data with and the owar; if yet I peak bear of the data with a term of the bit maintain at high pin to of the bit maintain at high pin to of the bit maintain at high pin to the peak of the pe

planter may lose la entare crop in a few hours. The trees are strapped bare but recover in a single season.

The only indigenous mammals are rate and several species of bat but the pigs dogs cats and domestic fowl must have been introduced in early times. None of the snakes is senomous and besides the contipede and the mosquito the numerous insects are innocutous. Fortunately the mo-quito is not infected with malaria. Experi ments in acclimatisation are always fraught with danger fortunately the

rabbat has never increased as in Australia but the Norway rat became so destructive to the sugar-cane that the mongoose was imported to reduce the pert. He destroyed the rats but he increased to such an extent that fowleggs crabs and at last the sugar-cane their fixed suffered from his depredations. Among the land crabs is one peculiar to the island of Thikombia that climbs cocomic palms to break off the nuts which it smarkes open and devours. It is a great deheavy with the natives in Fiji there is no mining with the



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exception of sporadic attempts to pros pect for gold In a rock structure so recent it is unlikely that any important mineral deposit will be discovered

Fish are abundant, but though the coast natives are expert fishermen there is no commercial fishery The natives who live near the European towns of Suva and Levuka used to hawk their surplus from house to house but now sell the fish in the municipal market staple industry of the colony is tropical agriculture and practically the only manufacture is sugar and its by-pro-In 1890 the sugar mills of the Colonial Sugar Refining Company were the largest in the world At that time the Indian Government still allowed coolie labour to be recruited for contracts in Fiji, and a large number of time-expired Indians settled down in the colony as market-gardeners and The closing of this source shopkeepers of labour was a severe blow to the industry, for the Fijians, being large landowners, have no inducement to work on plantations Bananas and pineapples are shipped green by steamer to New Zealand Copra (dried coconut) is produced by both European and native Generally speaking, it is sunplanters dried, though a small quantity is dried by the hot-air process. The copra is gathered from the various plantations, collected in Suva and Levuka, and from these ports exported by British steamers which trade regularly at these island ports through the Panama Canal to the United Kingdom and to various continental ports

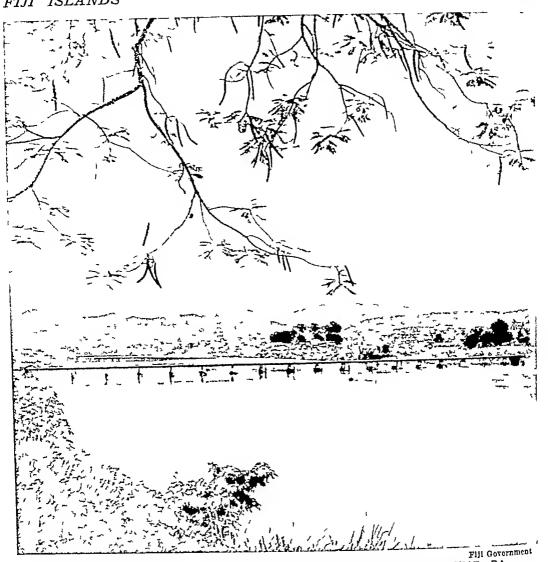
There are branches of Australian and New Zealand banks in Suva. European community numbers about 4,000 out of a total population of 157,000, of which 85,000 are Fijians and The native popula-60,000 are Indians

tion is increasing slowly

Fig is connected with the outer world by cable, radio and weekly steamers to Sydney and Auckland, while ships of the Canadian-Australian Line call at Suva on their way between Vancouver, New Zealand and Australia The internal



the sumerous rivers and creeks, but they include extensiving the dead ken es of the anse reops. The predoction of secu SUGAR PLANTATION ON I the Ra and La toke d tricts.



Fill Government
WHERE A SUGAR COMPANY'S RAILWAY BRIDGE SPANS THE BA
Permanent railways are non existent in Fig., except the line owned by the Colonial Sugar Refining
Company Nothing is carried on this railway for a private trader or producer sive by the courtest
of the company, which has about 350 miles of permanent line, apart from a number of portable tracks
in the cane fields that may be easily and quickly laid as the cutting of the crop requires

communications still depend upon water transport Roadmaking lags far behind what is considered necessary in a French colony, and there is no railway beyond the plantation narrow-gauge tracks of the sugar plantations. The earnings of a railway built through so difficult a country could never compete with the slower transport by water

Levuka, on the island of Ovalau, remained the capital until 1882, when the colony outgrew its inconvenient harbour and confined space. The land belind Suva, the present capital, is sufficient for a large town. There are small European settlements near the large

sugar plantations on the Rewa, the Ba and at Labusa The houses like those in Suva are wooden bungalows The native villages are still built of posts and thatch, generally with a small shop kept by a European or an Indian trader

There is a well-equipped government hospital and medical school for native practitioners in Suva and small local hospitals for plantation labourers. Apart from foreign epidemics the prevailing native diseases, which Europeans sometimes contract, are framboesia, elephantiasis and dysentery, which are infective diseases of the tropics. Leprosy is endemic but not increasing. The Tiji

1879 FIJI ISLANDS



BEAUTIFUL PALMS ON THE BEACH OF THE ISLAND OF WAKKAYA
II is not be illusted here to enty miles and Over her for create point grow with one
month of him of any time when count that themplanded spirateristically make over of the most besettind
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FIJI ISLANDS



LEVUKA, FORMER CAPITAL OF FIJE ON THE ISLAND OF Levuka was the capital up till 1882, when owing to the growth of the colony and the inconvenient situation of its harbour, the seat of government was removed to Suva, where there was sufficient space for expansion. Practically all the houses in both towns were of one storey and built of timber, but now all the important buildings are being constructed of brick and ferro concrete

Government has a splendidly conducted leper station on a separate island, all lepers are removed to that island, where they receive the most modern scientific from which a few treatment and patients have already been discharged The Figures, who form the bulk of the population, have been very little changed by annexation to the British Empire and conversion to Christianity They are intensely conservative in dress and custom, and little attempt has been made to teach them English They are expert boatmen

and most of the larger tribes own a small European vessel in common

They were never traders, the only form of barter they understood was a ceremonial presentation of goods which looked for a presentation in return, and they have not taken well to foreign They are very intelcommercialism ligent, but their needs are small, and though they are large landowners they prefer to lease rather than cultivate their Hence most of the small retail land trade is passing into the hands of Indians born of coolie immigrants

### FIJIGEOGRAPHICAL SUMMARY

Natural Division Tropical coral-fringed islands, with cores of volcanic origin, the main islands being connected by a submarine ridge (see map)

Climate and Vegetation Controlling factor-the south-east trade wind, which blows from April to November The hot season, December to March, maximum February, 90° F, is the rainlest, and then the trade wind fails July and August July and August are the coolest months, 80° F, and the least rainy Rainfall, generally 100 inches annually, is variable in quantity and season in accordance with the vagaries of the trade wind, the heavy rain comes in typically tropical afternoon downpours The windward areas, to the south-east, are tropical jungle forest, fringed near the

sea with coconut palms Leeward districts are grass covered with bare patches

Products Sugar-cane, copra, rubber, pearl shell and bêche de mer, tobacco, rice, bananas Sugar-cane is the main product, Indian coolies formerly em ployed are now prohibited by the Indian Government, and the main sugar firms Hurricanes may have ceased operations destroy the crop of coconuts No product has been developed for export purposes to take the place of sugar

Fiji is a healthy tropical Outlook British colony, without mainland, and with great scenic beauty, situated at a considerable distance from possible markets and without payable resources, 3 colony in a state of suspended development

### FINLAND & OTHER BALTIC LANDS

# Four New Republics on an Inland Sea

## by Frncst Young

Author of Finland the Land of a Thousand Lakes

As a result of the Rus ian Revolution and the ubsequent draption of the Rus ian Empire there emerged a number of independent ropubles four of which are situated on the cattern shores of the Haltic Sca. These four republics are Finland Fishiona (the country itself ha adopted the spelling 1 stonia). Latria and Lithiann They form a long narrow area which measures roughly about 1 soo nules from norther to south but is monther more than 400 miles broad

This long narrow strip i divided into two ha the full of limiand, though physically both areas are of the same type of urface configuration. They are low in elevation and while Finland is in the main a platean of gratite the plateau nowhere contains elevations of any importance except in the Lapland pursion of northern l'inland where the surface traches heights of 1000 to 4,000 feet Fathonia Latvia and futhnama are comparatively flat and resemble the rolling prairies of North America in character though there are in places low wooded hills separated by picture que valleys. As the four republies face the Halue Sea they have an extensive coastline except in fithuania which is almost shut off from the sea except for a short stretch round the former German port of Memel.

### Island-studded Seawars

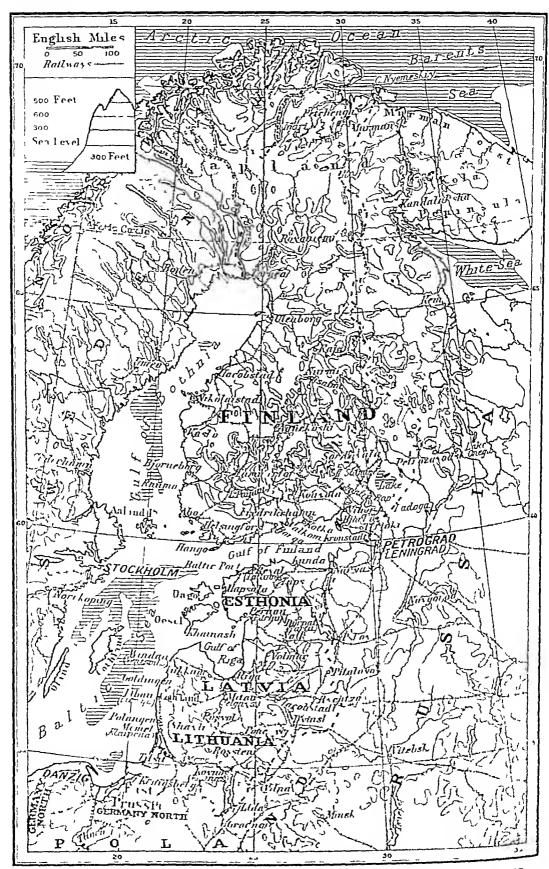
Paris of the Finnish coast are specially notleable for their off-shore leands, there is probably no part of the earth's surface more dotted with slands than the sea between the Aaland Islands and Abo. These islands are of every conceivable size and shape. Some are large, and in the neighbourhood of

Helsingfors dotted with villa residences where people pand the summer month. They are clothed to the water a edge with yine and birch alder and mountain a h. Others are mor recks upon which a broad white cromay be painted to ask of the majgation of the labyrinth. Across the Culf of Finland in Esthonia and Laivia the granti rocks give way to sandy beaches and a few large relands nearly convert the Gulf of luga into a land locked sea.

### Claim Lake-maken

The whole area from Lapland to Lathuans forms part of the lake region of north-west Purope. The lakes he in hollows scroped out by glaciers that the surface doring the successive Ice Ages or in the valleys dammed by the moraines that the glaciers left behind when they retreated. As the ice remained longer in the north than in the south lakes are more numerous in Finland than in Lithuania. there has been less time for them to be drained away. There still remain however over 2,000 lakes in the most southerin of the resulting.

The nearness of the edge of the Fann.In plateau to the coast causes the riverto be broken by rapids not far from the coast and thus unnavigable for any distance from the sea. South of the Gull of Finland opportunities of river navigation are not much easier. The Drina which is one of the keys to the commercial prosperity of Latvia is impeded in its middle course for a distance of about 100 miles by rapids and whosls where the river forces its way through the low sandstone hills, and amall ateam vessels can go linand only about twenty miles. The middle only about twenty miles. The middle



EASTERN COAST OF THE BALTIC AND ITS GLACIER-WORN HINTERLAND

1883 FINLAND

and upper courses of the river however for about 100 miles beyond the frontier of Latvia, are used for floating timber in the spring floods. The \text{Vernen [Alemel] is navigable below kovno (Kaunas) but between Grodno and kovno is only available for rafting timber and all traffic ceases on account of ice for about three months each year. Owing to the lowness of their watersheds and the number of tributaries both the Dwina and the Niemen have been connected by canals with the Black Sea.

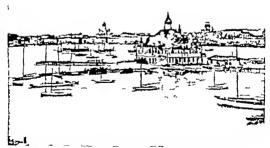
The glaciation of the surface removed most of the fertile soil and left munerous marshes and peat bogs. As the south has been longest free from ice there have been longer opportunities for drainage and cultivation and the soil of Lithiania is therefore richer than that of most of the other states.

Though the north of Lapland is well beyond the Arctic Circle and the south of Lithuania is in about the same latitude a southeat England the

differences in climate are not so great as one would naturally expect Winters are everywhere long and severe though the south is in general warmer than the north. The Baltic freezes and navigation during the winter is only possible with the assistance of ice-breakers By this means both Reval (Tallinn) and Hanco maintain a regular winter steamer service with England The Latvian ports of Winday (Ventspils) and Libau (Leonia) are however ree-free all the year round and maintain continuous and regular services with England and America The port of Riga is usually ice-bound for about four weeks but can be kent open with the assistance of 1ce-breakers

Spring is a season of enchantment the prelude to a short but magic summer when the heat is intense and raspbernes and siruwbernes grow wild over bundreds of souare miles.

The forest plays an important part in the life of the people. From the birch are obtained wood for the making



IN THE SOUTH HARBOUR OF HELSINGFORS, CAPITAL OF FINLAND inhabition has bour at a lock at the north and watch harbour by the small permud of Skatcholes, on which stands the lovely force (Cathole Camers above with rock, cross and by public grouper, are seen at the right beckpround. When I lit the five-domed Latheran Church sours above the force of the control of the

FINLAND 1884

of bobbins for the thread factories of Paisley, bark for drinking cups, shoes and baskets, fuel for engines of trains and steamers and wood for cart wheels and spinning wheels. Other trees supply timber for building and furniture, and for the manufacture of paper, paperpulp and cardboard, and resin and tar Timber is the most important export of all the four republics

## Ingenious Drying of Crops

At times the summers may be too short for the ripening of grain or the harvest-time too wet to allow the sheaves to dry In such cases drying may be carried out in pine-wood buildings heated by birchwood fires, this process also kills insect pests and thus improves the quality of the seed so that in most rye-growing countries Finnish rye for seed is in great demand In Esthonia and Lithuania potatoes are an important crop They are grown to such an extent both for food and as a source of alcohol that Esthonia has been called "the Potato Republic," and a distillery is a part of the normal equipment of every typical Esthonian estate In Lithuania special efforts are being made to develop dairy and poultry farming, already the egg export has reached 100,000,000 a year

The sea offers another source of food, and there is a great deal of sea-fishing, both in the Gulfs of Finland and Riga and in the Baltic. The social results of fishing as an occupation are important, the risks compel immediate obedience to a captain, demand a common toil for a common end, and result in sharing rights. The rivers and lakes abound in fresh-water fish, and Finland vies with Norway as an anglers' paradise

## Vast Sources of Water power

Unfortunately, useful minerals are everywhere rather scarce Finland has no mineral of any consequence except granite Coal occurs in Lithuania, but its quality is poor and the seams are far below the surface, and there are

unworked deposits of lignite and bogiron in Latvia Esthonia is a little more fortunate in possessing large deposits of shale, rich enough in crude oil to yield sixty gallons a ton This shale is used as a substitute for coal, especially in distilleries, gas factories, locomotives and steamships In the cement industry it functions both as fuel and ingredient

Amber is found in both Latvia and Lithuania It occurs on the coast in regular strata in small sand-hills, and also in isolated lumps that have been thrown ashore by storms

The general absence of coal and iron means that manufactures are not, on the whole, well developed, though the utilisation of water power both directly and electrically transmitted, has in Finland, as may elsewhere be the case, given rise to important industries. It is estimated that the Imatra rapids in Finland are equal to 140,000 horse-power, while the Narva rapids in Esthonia may develop 60,000 horse-power, and when the Latvian government scheme for the water-power of the Dvina is realized, it is estimated that it will develop 350,000 horse-power

### Local Raw Materials

Such manufactures as exist are mostly concerned with local raw materials. Thus timber becomes cellulose, paperpulp and paper, flax becomes linen and its seeds give linseed oil, the fine sheep of Latvia are the source of a small amount of wool, while alcohol is made from potatoes, and beer and flour from barley. There are, however, cotton factories in Finland and at Narva in Esthonia, at the latter place cotton was formerly manufactured chiefly for the Russian market.

As many of the people were practically self-supporting and frequently had little surplus, good roads were scarce or non-existent. The land was too thinly populated and too poor to call for or to provide numerous means of internal communication. Stations or post-houses occur at more or less regular intervals, where the traveller has the right to



FINLAND Adorning the countryside are countless lakes fringed by fertile valleys alternating with granite rocks rising to 200 feet 1825



Precipitous cliffs and wooded headlands overshadow the numerous small bays and coves which add wild beauty to the North Esthonian coast



ESTHONIA Some fifteen miles due east of Reval is this magnificent perpendicular descent of foam-flecked water known as the Jagala Falls

1886



Secluded spots of great beauty prevail on the Esthonian coast the ruggedness of which prohibits in many parts human habitation



ESTHONIA About thirty per cent of the country is covered with forest, and each fair landscape has a share of the luxuriant woodlands 1887



FINLAND Panorama of the town of Helsingfors and the harbour, which is also completely landlocked by the skerries and larger islands which fringe the cost



First van Frequent rapids, which supply power for numerous sates when in the rivers, and the river Pants, or Parish, is not an extension 1888



Clearly outlined against the sky in the center of the photograph is seen the finely proportioned Lutheran church raised up upon a huge mass of granife



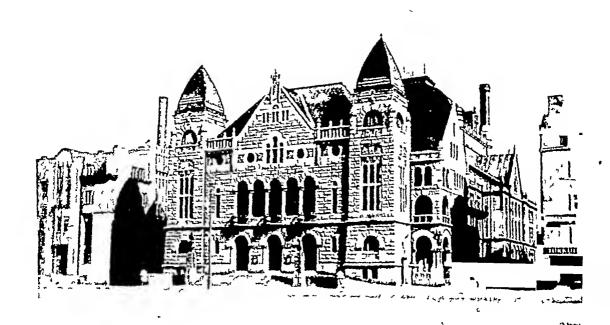
Flowing from the islet studded Lake Inaci during the greater part of its course to the Barents Sen it forms the frontier between Norway and Russia 1889



FINLAND Rising in Lapland the Kemi, after a course of some 300 miles, empties into the Gulf of Bothma, this scene depicts its majestic sweep past Rovaniem, where from the north descend into it the waters of the Ounas FINLAND



ESTIONIN Oil shale in rich quality is plentiful in certain parts of the country and at the hobila quartic aboay the oil is present in sufferently large quarkites to make its extraction commercially frofitable



This fine building with its granite façade is the National Theatre at Helsingfors, standing in the Jernvägs-Torg or Railway Square



FINLAND In the Vestra Chaussée close to Helsingfors Station is the splendid National Museum with its lofty tower, built by Saarinen

demand transport at fixed rates. The Inconvenience caused by the absence of really good hand mad in to a large extent mitigated by the almin tince of water mutes principal by the lakes though their value is much discounted In the fact that they are frozen over fire three will sur months excits that date Baltic mere at useles except for floatme timber. All also have ter tray led in the boats that may it the linni h lik s are unamm m a 1 the quality of the accomm lation cheanner I the later and the Ar Illine of the first obtainable on 1 ut 1 the Littl 1 mers

On Lak Suma verels can travel for a litare of some and it paid tipo form Vilez in the Culfollon and relicalment the sea be at 1th country in a like time hout winds its way in and out amon mek and idend and stam lak through channels marked with 1 11 in wint IN ted its a whitevalled causes there so we in one ling exercisions. two of the much that is type at 11 inns h bt and seeners. The peed is low for the there are numerous and it would be a jets not to act on the national maxim God did not en ate hum

#### Causes of Sentrered Population

Railways are comparatorth few the connect mainly the few port with each other or with certain conrecof supply in the Interior. Considerable areas are very badly supplied while single lines and narrow gauges only emphasise the deficiencies. Moreover the former Russian government was more concerned with military than economic railways so that where rul wars exist that do not always serve the commic needs of the countries they traverse. This is particularly the case south of the Cull of Linkand. In Finland the railway were built by Finns without ald from Russia and therefore with no regard to strategic interests

The presence of forest and farm and the absence of roads and railways are all against dense settlement and large cities. The only city with ever 200,000 inlial liants is Rica and only two others, Hellingforward R val. hav over 100,000

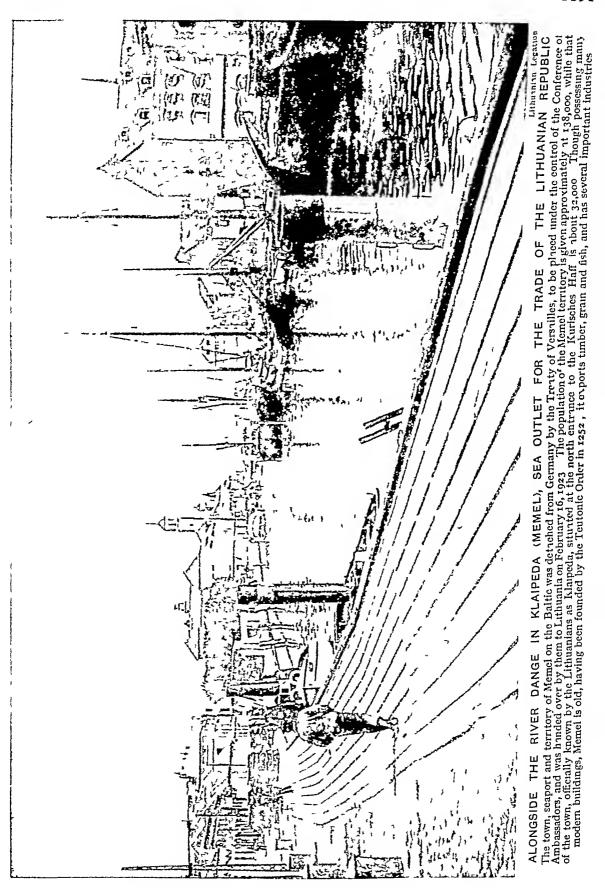
The house wars comewhat in style and material a confine to their urban or tural character. In the country as is natural in a forested region houses Larns and farm buildings are cl wood and home make. The a wint is killed with his hand and out custle er etime his own louis, and making his men furniture. The langua at and usually only one tores high and the hink between the loes and planks r fill I with div R of are fault hugh and tep to theme off now and red with plank thatch if straw In hingle which under the military of the watter take on the and at the id thate

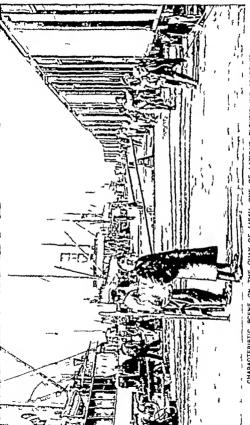
#### Architecture Old and New

in the tran in kand trop are used in the liter had lines. The relatector f be dir tructure may be a mer erpetition I day all in R has some at m bible i on the buildings names in the lam lind of the latiners who have controll I there terrot energian arcent treat his tall for has a 1 u wan clour h and a Dani li ca tle li kiga lia tarman honses Lindand has Sou dish on the But there has prune of all round the Baltic a new school of architecture that has eiven ne to tone building if a curious and often beautiful charact These are best 4 en in a city like Helsingfors where there has been a more actively independent culture than elsewhere,

### 5t etling Decorative Schemes

Modern Firm It architectur is a fased nating study because no two people liave the same idea as to what it is worth or what It all means. Straight lines are broken up in the most extra ordinary manner decorative details of frogs and spiders, carrots and swans are strewn about with a recklewness and profusion that is sometimes comical but sometimes impressive.





Liber, locally known as Lapata, the compercial harbour chan

FINLAND 1896

As movement was easiest along the sea, the sea road was in many ways the main road and almost all of the larger cities are on the coast. Of these one of the most attractive is Helsingfors, the capital of Finland, which possesses a fine double deep-water harbour protected by the island of Sveaborg. Its two chief features are cleanliness and youth. There is in the market square a fountain whose design comprises the figure of a young girl, beautiful and fresh as the morning, rising out of the sea, the figure symbolises the modern capital

The old capital was Abo, occupying a fine strategic position behind the Aaland islands Abo is still properly the ecclesiastical capital as being the spot where first Christian missionary Englishman, and sent by the only Englishman who ever ruled at Rome) landed in the twelfth century Reval (Tallinn), the capital and chief port of Esthonia, being farther south than the Finnish ports, has the advantage of being practically free from ice deep harbour merchants of the Hanseatic League gathered at an early date under the shelter of the castle-crowned It owed something of its former prosperity to its nearness to Petrograd (later Leningrad)

More important as a port is Riga, the capital of Latvia It was once a member of the Hanseatic League and the old high granaries and huge cellars still bear witness to its early value as a storehouse

By river and canal it has easy communication with the basins of the Dnieper and the Volga, and railways tend to centre here because of its eleven months of open water Before the Great War Riga was the second largest city on the Baltic, Petrograd being the first, and, with its 612,000 inhabitants, was larger than Stockholm During the Great War the population decreased, but now is again over 300,000

Memel (Klaipeda) is a small place, but as the chief port of Lithuania, with an approach blocked by ice for only fourteen days in the year and fairly easy access to the interior, it should have a much increased population and trade in the early future The one big inland city was Vilna, the capital of old Lithuania, now included in Polish territory, and the seat of a famous university It lies at the junction of the route from Petrograd (Leningrad) to Warsaw and beyond with the route from Danzig to Moscow Hence it is naturally an important railway and commercial centre Kovno, the modern capital, stands on the right bank of the Niemen 60 miles north-west of Vilna Its former industries in timber and grain have given place to brewing and nail and wire making It has railway communication with Vilna, Dvinsk and Konigsberg

The people are largely the product of the hard conditions under which they live simple, honest, self-respecting and firm, tenacious—even obstinate

## FINLAND GEOGRAPHICAL SUMMARY

Natural Divisions Superficially the whole area is a lakeland, consisting of low lands and low plateaux with lake-filled hollows Structurally the Gulf of Finland is a definite gap, with the northern area, Finland, an area of old rock, a relic of the ancient continent of Arctis and similar in origin to Scandinavia and Scotland, and with the southern area, the Baltic republics, an area of newer rock, part of the Great European Plain, allied to the similar lands along the Baltic shores of Germany

Climate An area of continental uniformity, held in leash by the Baltic waters Hard winters, with frozen lakes rivers and seas, recall Labrador Cool summers, with spells of brilliant sunshine recall Quebec I or Lapland v Arctic Lands

Vegetation Naturally, a forest mainly conferous, part of the great belt of forest which extends from Sweden to the Amur lowlands Pasture and arable land find place in the forest clearings

Products Timber, with all the byproducts, pulp and paper, turpentine and resin, potatoes and alcohol, rye and other hardy cereals, dairy produce and

eggs, flax and hemp
Communications Waterways in summer, primitive roads railways designed in the south to serve alien interests before the advent of independence

Outlook With Switzerland and Den mark as exemplars these newly-freed peoples are entering upon a period of golden opportunity

### FORMOSA

# Japan's Island Colony in the Pacific

## by Owen Rutter

Author of Through Formous, etc.

PORMOSA or Taiwan the I land colony of the Japanese Emptro, is, as it were a stepping stone between Japan and the Philippanes and lies where the Pacific Ocean be comes merged in the China Sea. It has an area of 13,044 square miles—nearly twice the size of Wales—and is shaped something like a great plum 241 miles long and 76 broad the southern penns sula formuse the stalk.

The formation of the island is so peculiar that the Chinese geographers of old believed it to have been caused in dragons ploughing up the earth under the sea Through the centre from north to south runs a continuous mountain range the outstanding peak of which is Mount Morrison or Niltaka (14,77 feet) the highest mountain in the Japanese Empire. This range divides the island into two distinct parts. Its spurs run east and west on the east they form a region of highlands which fall steeply to the coast in some places forming rocky cliffs which tower sheer 6,000 feet above the sea while on the west the mountains alope gently into lesser hills, and thence to plateaux and fertile plains. The result of this formation is that there are no natural harbours of any importance on the cast coast and no navigable rivers. On the west and north the conditions are more favourable.

### "Beautiful Isle of the Portuguess

The Japanese have improved by artificial means the harbours of Takow and Keelung although the Tameul is the only river navigable by steamers for any distance. It was the sight of these smiling plains and placid streams, with the hills rising in the background, that caused the early Porturuese navigators to call the island Ilha Formova—the Beautiful Isle—as they sailed past the western shores

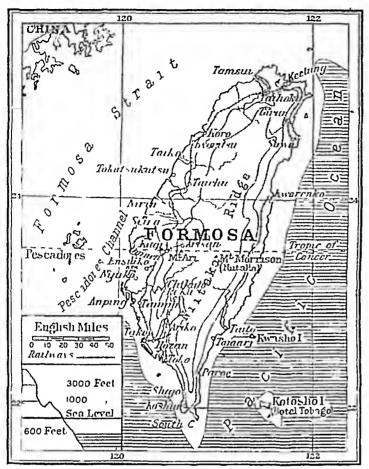
The plans too have been rendered fertile by the washings from the hills and contain extensive alluvial deposits of considerable depth, and since Formosa is the centre of a volcame chain the soil throughout is unusually rich.

### Climat W rm and Damp

The troole of Cancer almost bisects the island and the Japan Stream washes its eastern shores. In the south the climate is subtropical but in the north and eastern hills the climate is colder but snow is rarely seen, except on the mountain peaks in winter the rainfail is well distributed throughout the year with showers during the summer months. though keelung is one of the wettest places in the whole world and Formosa Strait is subject to terrific storms The elimate is a healthy one both for the white man and the Japanese though malaria is not unknown, but the southern part of the island is pleasanter from October to April during the north-east monsoon while the climate of the north is better during the south west

The warm damp climate naturally resulted in the Island being clad originally with luxuriant forest—much of this fell before the Chinese settlers but much still remains upon the eastern hills. It contains many species of commercial timber—most valuable of which are the oak cypress cedar and camphor laurel

In the forest regions of the east the larger mammals of the Island are mainly found. Some of these, such as the Tibetan bear (Urus tibetanus) are allied to speckes found in the Himaleyas or northern China others such as the



RIDGE UPHEAVED FROM THE CHINA SEA

pangolin or scaly ant-eater, to those of the Malayan islands. Wild pig and deer abound, while the clouded tiger (Felis nebulosa), the flying squirrel, several species of civet-cats and the goat-antelope also occur. Snakes are common, and there are many species of birds—thrushes, starlings, woodpeckers, pigeons, partridges, pheasants, owls and others—several related to birds living in lands far distant, others peculiar to the island.

On the west there is little natural vegetation for nearly every acre is under cultivation. The first agriculturists in Formosa were the Chinese. They brought rice seeds with them and their methods of cultivation were so successful that the island became known as the granary of China, and now the western plains have mile after mile of terraced rice fields which provide an annual crop of 40,000 tons. Half of this goes to feed the local population and the remainder

is exported to Japan and foreign countries Formosan farmer has always had conditions his favour, so methods are still primitive and he takes little pains to put back into the soil what he takes from it. but by means of extensive irrigation works the Tapanese authorities have increased the annual output of rice, improving its quality at the same time

Up-to-date methods have also improved considerably the cultivation of sugar which is one of the most flourishing forms of agriculture ın colony, much has been done by obtaining from Hawanan Islands cuttings of cane which gave not only a greater yield per acre than those introduced by the Chinese, but also a considerably

higher yield of sugar per ton of cane As well as rice and sugar the Japanese found tea in the island, also introduced from China—Both soil and climate suit the plant well, and it is cultivated extensively in the plateaux to the north, drains and terraces being constructed on the hill slopes to prevent the fertile top-soil from being washed away

Formosa is situated too far north for coconut trees to bear well, although they thrive on the little island of Kotosho or Botel Tobago, a few miles off South The tapioca plant, the areca-nut and the silk cotton tree also grow in the Tobacco is cultivated by both the Formosan Chinese and the abortgines, also ground-nuts and the soya bean, harvests being obtained twice a year in the central and southern districts There are unlimited possibilities for sisal hemp and such fibres as jute and ramie, while pineapples and bananas abound

In fact both soil and climate are so favourable that the Island will grow almost any tropical and subtropical product. Its possibilities have not been tully exploited and the authorities by establishing experimental gardens have proved that cofice many new fruit trees and even American grapes will grow They have also introduced fertilisers and labour saving devices and by practical example have gradually induced the conservative Chinese to adopt scientific methods of seruculture.

The most important minerals in Formosa are gold, silver comper coal petroleum and sulphur. Most of these occur in the northern part of the island. Gold is obtained by washing the alluvial denoists of the rivers and in mining.

quarts silver is produced in unimportant quantities, while copper has been found in close provinity to the gold deposits. Cosi is more widely distributed even being found in the Pescadores Islands, whose total area is only 44 square miles off the west coast although the northern outcrops have so far proved the most valuable several sulphur pits exist in the north while indications of petroleum have been found in several parts of the island but have not been worked extensively.

Indeed, so little explored is the eastern territory that it is difficult to estimate Formous a whole mineral wealth. The future seems to hold great possibilities. The fivers on the east coast are known to carry gold and in the mountains.



TRANLINES FOR MAN-POWER ON THE ISLAND OF FORMOSA.

Though surrow tracks have been half across the rice fields of the still swarp back-country man nover
a employed is a being chapter than steam. The chemis is Javourskie for the cultivation of rea,
appending it he western districts where a crop is pathered t so yearly. The government has
satisfiated, "for imprection office and cettizes where rice send is cultivated expressed sitely
satisfiated." (or imprection office and cettizes where rice send is cultivated expressed sitely

**FORMOSA** 



CRENELLATED PEAKS DIMLY SEEN BEYOND GRACEFUL BAMBOOS In Formosa, as throughout the Orient, the bamboo figures extensively in the social economy of the people. Were every other means of support, except bamboo and rice, to fail, these two plants would supply the necessaries of existence Houses, agricultural implements and many domestic utensils are principally fashioned out of bamboo while the green shoots are prized for food

from which they run may be hidden parent reefs more valuable than any that have yet been found. It seems probable that when the unexplored part of the island is sufficiently opened up for adequate mineralogical surveys to be made other valuable minerals may be discovered.

If the hills of the east coast hold hidden treasure, the seas that wash its shores are already productive, for they afford a livelihood to numerous fishermen and teem with bonitos, tunnies and frigate mackerel, while in the western waters are found sea-bream, grey mullet and rorquals. The Japanese, by instituting motor-driven fishing-boats, have caused remarkable progress to be made in the fishing industry, for the primitive Formosan craft are little more than

1901 FOR NOSA



WHERE TREE AND CREETE STRUCGLE BY A FORMONA FORENT IN EACH OF A FORENT OF A FO

laint raffs with car and a indexed. Dento and will rain I am the life classical and I also only include castle and I also only include castle capet. If whiteshand didd to Jajan in mora in quantities while shocks for a delicacy to the Chinese public are also injurtant.

The timb r working seeings a can a leable projection of the j quilation haps which tand on a plain at the I tof the slepes of Mont An is the entre of the hund r induits; the limit r is wither at levation, which was between 1 c and 8 coor fet and train gitted by mean of a monitan radius); the saxuall which is pipped with the latest. American machiners, Cedar is the timber chiefly weeked the campber tree is reserved for the deposition with which its wood is impregnated.

FORMOSA 1902

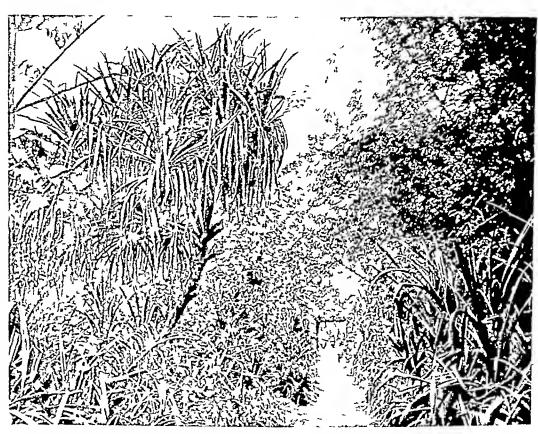
the collectors' work being one of great difficulty and danger owing to the truculence of the aborigines in whose territory much of the camphor lies

The main occupation of the Chinese Formosans who form the bulk of the population is, however, agriculture From the earliest times the soil has afforded them their chief means of livelihood. They brought their methods of rice cultivation with them from

of the soil They also plant sugar and tea and their domestic animals are water-buffaloes and pigs

Most of the mining is in the hands of the Chinese Formosans, though the large enterprises are financed by Japanese capital, only Japanese subjects being allowed to engage in the industry

Very much the same state of affairs exists in the manufactures—the Chinese Formosan is the labourer, the Japanese

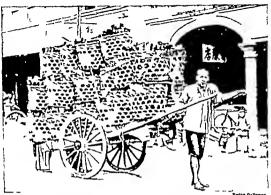


AMID THE LOVELY GROVES THAT ABOUND NEAR TAIHOKU
Two cactus hedges gay with convolvulus, fuscina and many other wild flowers border the lanes
Their blossoms stand out brilliantly against the green background, while overhead the bamboo
rears its stately plumes and throws a grateful shade across the path. The slender steins nod to
every wayward wind, letting fitful gleams of sunshine play upon the flowers and foliage beneath

China, ploughing the inundated fields with the aid of their water-buffaloes and planting out the young shoots from the nurseries by hand, the women working as hard as—perhaps harder than—the men. The holdings rarely exceed two and a half acres, but in the southern districts they are made to yield three crops a year and in the north two—a proof of the farmers' industry no less than of the fertility

the master The chief manufactures are those of sugar and camphor. There are some forty-five sugar refineries with up-to-date machinery, all owned by private companies. Camphor, on the other hand, is a government monopoly, with a central factory at Taihol u, the capital. The camphor is obtained in the first place by chipping small pieces from the trunk in the forest. The chips are heated in small stoves.

1903 FORMOSA

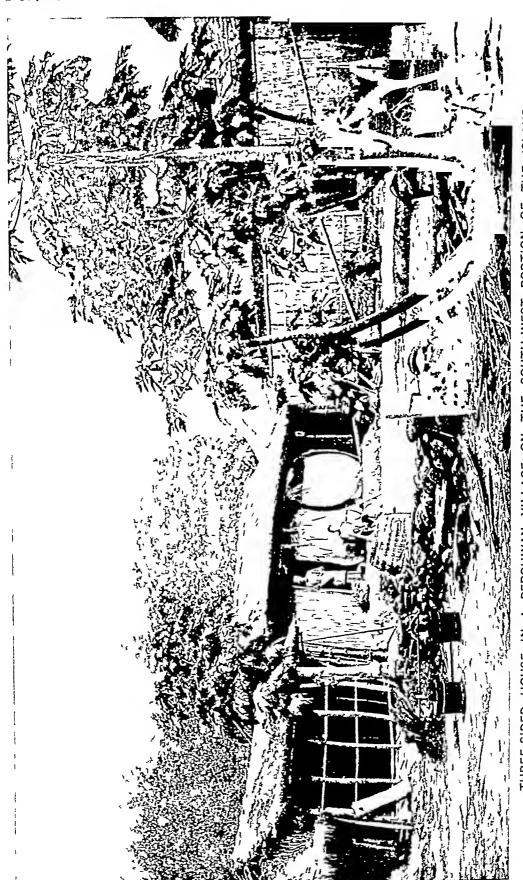


STREET IN TAIHOKU, THE CAPITAL OF FORMOSA albox covers of bost 3 square males with peoplations of 17,100. The city is situated to be Tambal incre and formerly covers includ time during the thees together with the arrestand later here been united order Great Talboxa. The city contain all the Variant portrained multitations, and in the camples factory large properties of the world supply to preferred.



CUTTING UP CAMPHOR WOOD AT A FORMOSAN DISTILLERY

Here the wood is being cut off in fakes, before bring issuited to extract the campbox. After being in
the hasaft of individuals for number of years, the industry became a government monopoly and
has made teady progress, this being parify due to the growth of the celebidd industry and parify
owning to the bloscopy Bureau technes of cultivation.



Clean, well arranged and comfortable, the houses of the Pepohwans form three sides of a square, of which the portion in the rear is occupied by the family, while two wings are used for sheltering eattle, pigs and poultry. The whole structure is made of bamboo, the thatch which covers the roof being bamboo leaves. The furniture consists of a few bamboo articles of Chinese workmanship, while rough billiets of wood serve as chairs. The tree on the right of the pleture is a PEPOHWAN VILLAGE ON THE THREE-SIDED HOUSE IN

erected near the timber workings until they give off a vapour which passes into a condensing box and there takes the form of tiny white crystals. These crystals are removed from the box packed in hags and forwarded to the factors where the crude material is cleaned and recrystallised by a modern di tilling plant. It is then all rected to instraulic pres are by which means the flaks crystal are trun forme I into the familiar onaque culss which are then packed in lead fined boxes right for export. Form sa contrils the world smools of comphor and in normal years the monopoly brings in a revenue of more than (400,000

The manufacture of salt opeum, alcolool and alcoholic liquous 1 a government monopoli. The salt is obtained by the evaporation of sea wat r either in hallow vat by the action of the sun or in pans set over furnaces. The opium factory 1 at Tathoku licre both opium pa te and morphine are manufactured the former for local consumption which is carefully controlled the latter mainly for export.

### Monopoly System and the Maddless

The monopoly system although it may tend to discourage healthy competition climinates the middleman who in Formosa plays a large part in the tea industry—the only one which the Japanese have not got completely in the hands of foreigners who through to Formosa for the tea season and there are also numerous Chinese and other middlemen all anxious for a finger in the pie so that although the consumer has to pay a high price the profits of the producer are miserably, small

The government of Formosa has during its twenty-eight years of occupation done a great deal to improve communications. There are over 6,000 miles of public roads connecting town with town and a trunk road which will run through the island from north to south is contemplated. At present its

place is taken by the railway which runs from Kerlung to Takow a distance of 237 mile this is a state line and has extensions which bring the total track up to 500 miles. In addition to this there are over 1000 miles of private lines mostly of narrow gauge for light railway. The hill listrict where it has so far been impracticable to build either mods or railways hav been opened up by means of push-cars on light trulley, lines

### Corner leations I terms and Fat real

For if twe connection with the outside world the government has ubidised the two main Japanese lines
and teamers run from the ports of
Tak we and keeling at frequent unterval to Japan and the China ports.
The towns have been linked up with
telephone and telegraph and there are
wireless stations at keeling in the north
and near Tak we in the south.

All the internal communications are employed for the transport of produce Buff do carts plod along the roads with the produce of the farmer the rull ways carry the sugar and timber from the couth campbor comes from the bulls by push-car but owing to the ballow nives little water transport is possible. In the summer months occangong steamers call at Keelung to load tea cargoes for America.

### New Prosperity under Japa

The good shipping service between Formosa and Japan and China has made it possible to build up a thriving export trade. Formosa is self-supporting in most of the commodities the produces and has a large balance available for export. The chief exports in order of their importance are ceal, tea, sugar camphor fibres rice bananas and alcohol the principal imports being oil cake cotton and silk textiles crude optum salt, kerosene oil tobacco from and machinery. The bulk of the trade is with Japan.

There is no doubt that Japan has set about developing the island with this



Subjected to the intense heat of the tropical sun, the women toil all day on the tea plantations, earrying two huge sacks suspended at either end of a They are accompanied by their children, who are taught to pick the leaf at a very early age. The tea grown in Taiwan, as Formosa is called the comprises two varieties, Oolong and Pouchong, the former being mainly exported to America, the latter to Java. Green and black tea are also prod

alm in view Nor is there any doubt that she has surceeded. In less than thirty years the Japanese have worked wanders few colonies of like size could how such process in so short a remod-They have tran formed the 1 land from a wilderness into a through dependency

Not lea t among their achievements are the unprovem ats they have made in the sanitary conditions of the towns The lummoun farmers and villages live much as they have as a lived. All over the plaint may be seen their little homestead, with walls of mud and reads of thatch eart with a towering fence of closely planted lumbon. But the conditions of the villages and town which during the Clanese occupation were indescribable filths have been vastly improved. This has been much to climinate the outbreaks of millions and cholera that formerly went through the i land like a for The main towns-Takon the southern port Tainan the ancient carntal hagi and Taichy are well laid out though were of the modern buildings are far from beautiful and in the continuction of a caretal that shall be worthy of the colony neither pains nor money have been spared so that Tailboku is desented on a finer scale than any city in the empire with such wide treets spacious parks and public buildings as would not dis grace any carstal in the world.

The population of Formosa is just under 4,000 000-nearly thirty to the

square mile-174,000 of whom live in the capital The mhaldtants fall into four distinct cla es the Japanese numbering some 175 000 most of whom en to Formo a not as settlers or colonists but as Europeans co to the Crown Colonies-as government arvant mer chant or planters the Formosins descendants of the original Chinese ettlers who number 1 500 000 and have In their industry contributed largely to the uccess of the Japanese \$1000 foreigners among whom are included all Chinese who are not Jananese citi rens ha birth or domicile and a few Lummeans and Americans representamore of consular services and commercial firms and mi sonaries and la thy the aborigines of whom there are airproximately 1 m ooo. These are almost all to be found in the castern full whither they were driven in former years In the incoming title of Chine-e settlers. Their origin is almost certainly from the mainland of \ ia and in size colour culture and intelligence they are also to the abovernes of Borneo the Malay I emp ula and the Philippines

They have been found tractable by I property and the Japanese by both washike and peaceful methods have succeeded in substaine many whom they now educate and encourage to lead useful lives but numbers still remain unsubdued and their medication is the most serious problem the Japanese have to face in their island colony

#### FOR MOS ( GFOGRAPHICAL SUMMERS

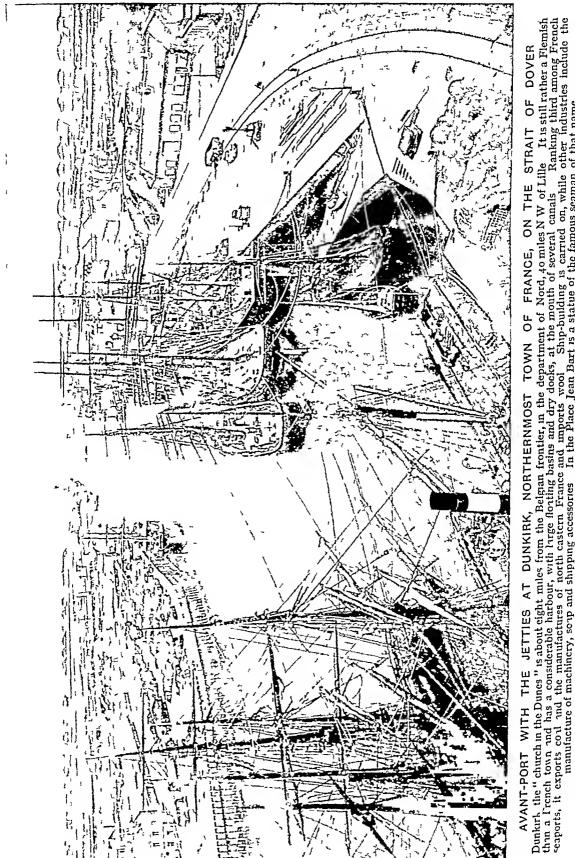
Natural Division A rider rising from A submarine platform, a typical Pacific Ocean coa tal form ton, forming with Japun and the Lu Chu I a festoon of relands along the real continental edge (cf Vancouver 1) A steep, edge faces the Pacific on the east. A steep, scarped

I male and legitlion Insular climate will summer rains (cf. South China) narm (cf. learned.) The east is the rainy side and being mountainous is clid with virgin forest (cf. Madagascar). The lower west has been settled too long and too closely for any natural vegetation to be left (cf. Ganges and Lang the valleys) Camphor is the main natural product and is almost a monopoly of this island.

Projects Cool gold and petroleum are the principal mineral resources. Rice (cf China) cane ugar (cf Java) tea and trults (cf Philippenes)

Comm at at one n n developed. steamer service to Japan with which the bulk of the trade is done I always and road service are being improved.

Outsook Probably no colony of equiva-lent size can equal the development which has taken place during the three lecales has taken piace outring the unree lets its since 1803 and given stable political conditions the rate of progress should be maintained. This phenomenal growth is bound up with the expansion of the Japanese empire largely at the expense of China and her dependencies.



and imports wool Ship-building is carried on, while other industries include the In the Place Jean Bart is a statue of the famous seaman of that name manufacture of machinery, sorp and shipping accessories

FRANCE



VARIED LAND OF FRANCE FROM CHANNEL TO MEDITERRANEAN

notion of the superficial aspect of France We shall note that the slope is exactly opposite The low-lying plains of Flanders. Artois, Picardy, Caux Vexin, Valois and Brate ching to the escarpment of the He de France, and thence Champagne, Argonne and the plateau of Lorraine rise gently up till they reach the barrier of the Vosges Between the valleys of the Some and of the Lorre the land is murked by a similar conformation but the curve is much longer The hills roll away one after another, varying in height from 800 to 1,200 feet above sea-level till in the Vosics they att in an altitude of 1500 feet Southwards from the Giroude to the Alps, the slope - are much

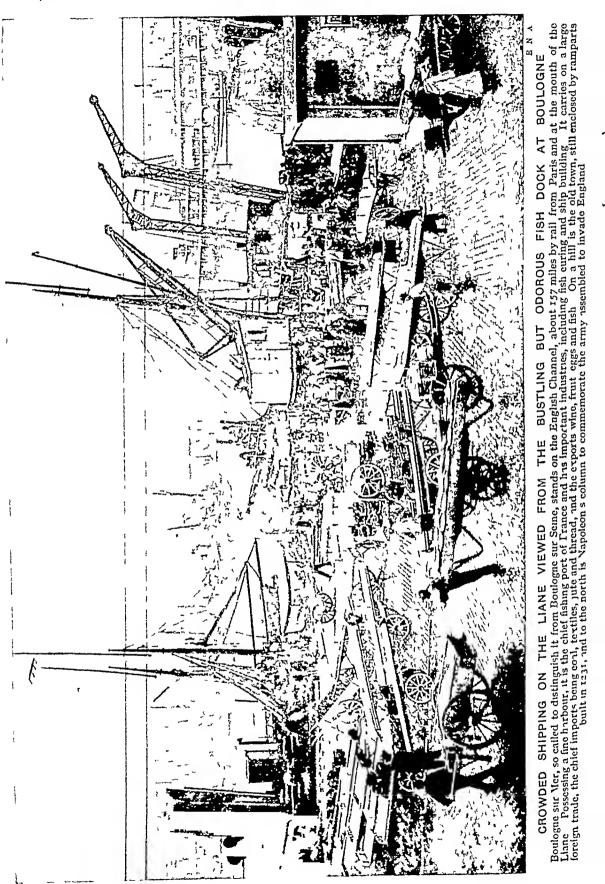
precipitous From the terraces of Perigord and the Causses we pass steeply to the central heights, which rise upwards 6,000 feet above the sea to descend again no less abruptly towards the Rhone Beyond this region past the Dauphine, we come to the lower slopes of the Alps, which rise up sharply to the realms of the everlasting snows

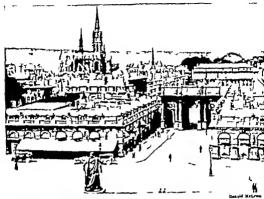
The bird's eye view which enables us to take in the conformation and superficial aspect of the land also afford an indication of its geological formation. The most notable feature revealed by a survey of the country is its central mountainous. System saturated to Auverage between the district called the Linguism and the Cevenie. The



TOWN HALL AND TOUR DU GUET IN THE PLACE DARMES, CALAIS

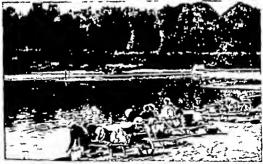
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NANCY'S SUPERS PLACE STANISLAS WITH THE PORTE ROYALE

NANCY BE expired of the department of Neuribort Newsit, stands on the Newsite should strength and the stands of the Newsite should strength and contain the broade status by Jacquot. The Porte Reyale is a trimpful arch bedli to bower of Lord XV and to the left of it is the file monothing charle charm has 5 prime.



WASHING-DAY ON THE WOODED BANKS OF THE MOSELLE AT TOUL Standing on the Moselle short 14 miles from Nercy Toet was the Roman form of Trillom Lencorum, and a first dark fortness. Over the spoot of the tree can be seen the town of the church of S. Burnes, tamous for its altaborate west front and clother and formardy cathedral. The intrinsic holdes the manifecture of pottery and have said the lankshitzs a wanter about 1,200°.

FRANCE . 1914



FINE CARVING ON A WOODEN HOUSE AT SENS
Standing at the corner of the Rue de la République this curious
house is remarkable for the old beam on which is carved the
genealogy of the Virgin Sens is on the Yonne and has a
beautiful Gothic cathedral begun in the tenth century

juxtaposition of two opposite and contrasted regions—the Parisian Basin and the Massif Central

The Parisian Basin appears as a region of hydrographic concentration All the principal affluents of the Seine converge there. From Paris, which is only about sixty feet above sea-level, the ground rises in all directions, culminating eastwards in the Vosges

The Massif Central, on the other hand, is a region of hydrographic dispersion. From it descends the Loire and its tributaries, the Charente, the Dordogne and the important tributaries of the Garonne.

All the other parts of France derive their significance from, and are attached to, one or other of those two To the Parisian Basin belong the agricultural

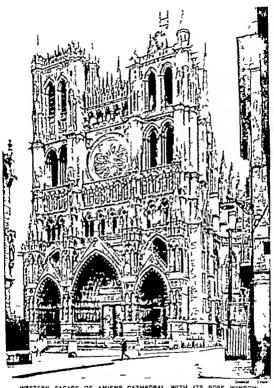
and industrial plains of the north To the Massif Central belong the basin of the Gironde and the plains of Toulouse, which link up with the plains of Languedoc Lastly, to the east, on the hither side of the Alps and the Jura mountains, the long valley of the Rhône and the Saône, opening into the plains of the Rhine and debouching on the Mediterranean, give access alike to the Massif Central and to the Parisian Basin

Such is the composition of an entity whose variety, harmony and cohesion are unequalled in any other part of Europe

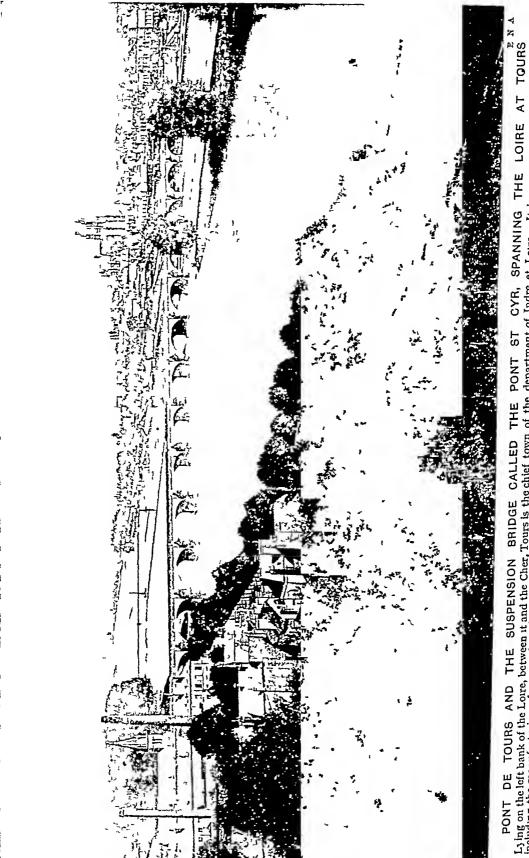
If now we consider France in relation to the surrounding regions, we shall see that she is the goal, as it were, to which all Western Europe converges On the one hand the plain of northern France, the schistic plateaux of the Rhine, the massif of the Vosges and

the Black Forest, the Jura and the Alps, all find their termination there On the other, she leans against the steep green slopes of the Pyrenees, the northern facet of the Iberian peninsula, while on her third side she comes nearer than any other country to Great Britain, and the close relationship of the two countries is displayed without interruption from one bank to the other of the Channel which separates them

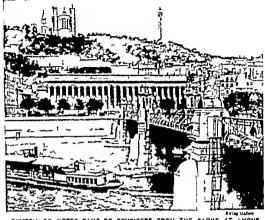
This description enables us to appreciate the wonderful diversity of the characteristics of France and the happy proportions in which they are distributed. There will be found scenery to the taste of everyone. Of mountains there is every variety, from the lofty summits of the Alps and the Pyrenees to the naked domes of Auvergne and



WESTERN FACADE OF AMIENS CATHEDRAL WITH ITS ROSE WINDOW Amen stand on the Source and h the pri I of the Source department. It is an important summifacturing said distributing contrict its solutivities including spinning and seaving territies beaded the making of ref I and bosery. The Source building in the city to the Getthe cathedral which was built massly in the thicknessing contrary and is remark. bit for its size and wooder! I stonework.



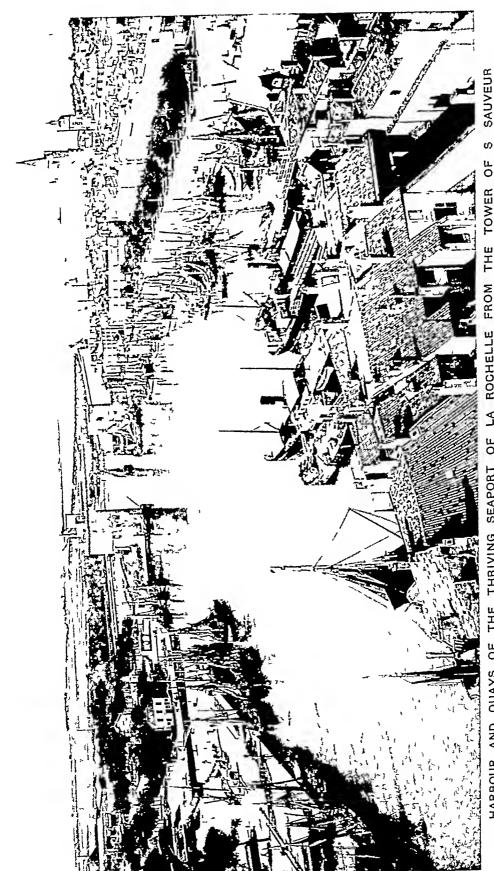
Lying on the left bank of the Loure, between it and the Cher, Tours is the chief town of the department of Indre et Loure. It is a prosperous town, the industries including the manufacturing of iron and steel goods, boots, shoes and machinery On the right of the photograph is the cathedral of S Gatien Though it was begun in 1170 and not finished till the middle of the sixteenth century, the various portions are in complete harmony It is flanked by two towers 205 feet in height, surmounted by cupolas in the Renaissance style—in a garden behind the cathedral are Reman walls and remains of an amphitheatre



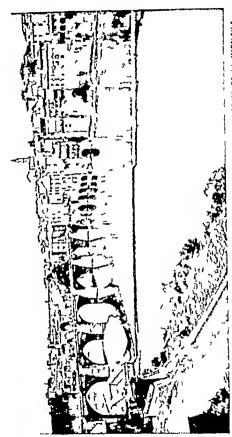
CHURCH OF NOTRE DAME DE FOURVIERE FROM THE BAONE AT LYONS
At the condinence of the Richne and Sixton Lyons is the filled city to France rail y centro of their
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tromstock, compresse, electrical and steamoble works, polity yit in Leather and between

the bald tops of the Vo-ges. Plams and uplands hills and dales alternate in charming sequence. Great rivers and numerous streams water the country and almost all of them have estuaries whose depth and extent afford admirable shelter for shipping. The seaboard is sufficiently extensive to offer every example of coast scenery The wild erandeur of the rocks of Brittani, the softness of its climate, its verdure and the colour of the sea have won for it tho name of the Coast of Emerald. The long line of sand dunes which stretches from the Pointe de Grave at the mouth of the Gironde as far as Burritz and the Spanish frontler past the heath country or "Landes of Gascony so rich in pines, is known as the Côte d'Argent the Silver Shore. The Mediterranean coast is divided into two parts, both of them parturesque though not equally well known. The part which extends from Albères to the mouth of the Rhône forms a long succession of lakes and pools fringed with vineyards forests of tlex and olive. The other part from Marseilles to Mentone is celebrated throughout the world under the names of the Côte d'Azur and the Riviera. Its natural beauty and its climate afford an irresistible attraction to visitors who are able to escape from the rigours of less favoured regions.

The soil of France is well drained. The rain-water is conveyed to the sea by rivers with numerous inhutaries but the rivers are not long, nor in their volume of water comparable with the great rivers of Africa or America, Their source as a rule is at no very considerable altitude.

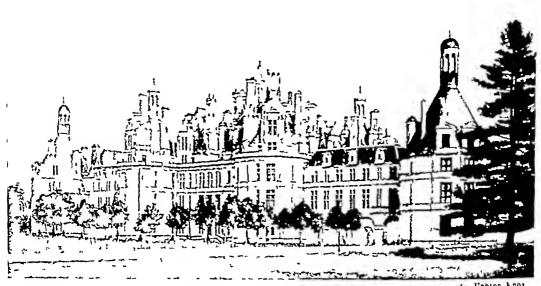


La Rochelle, in the department of Churente Inférieure, lies in a bay sheltered by the islands of Ré and Oléron and has a fine harbour. The new harbour of La Pallice, three miles west of La Rochelle, was begun in 1890 and is now one of the best on the west coast of France. There is trade in cereals, coal, wines, salt, colonial produce, sardines, etc., and ship building and its allied industries are important. The architecture of the city is partly of the Huguenot period, the houses having arendes called "porches," tall brackets supporting the roofs and prominent carved gurgoyles OF LA ROCHELLE HARBOUR AND QUAYS OF THE THRIVING SEAPORT



The source of the Seine is in the Côte d'Or, Burgundy, at an altitude of 1,560 feet. The Seine flows gently and with many windings to Rouen and Havre and reaches the Channel after a course of 485 miles. Its volume of water measures only 390 cubic yards to the second. That of the Thames is still less, being 256 cubic yards. The Seine is navigable over a considerable distance amounting to the greater part of its course.

reaches the Atlantic by a broad estuary called the Gironde It is 450 miles long, and it also has a very irregular flow It passes through Toulouse and Bordeaux, where the tide is felt 50 miles inland At Bordeaux the Garonne is 500 yards wide, and its depth of 20 feet allows large ocean-going vessels to reach the dock there Its volume of water, more than twice that of the Seine, is 910 cubic yards



NORTHERN FACADE OF THE MAGNIFICENT CHATEAU NEAR CHAMBORD Situated in an enormous park over 20 miles in circumference, the Château de Chambord is said to be one of the finest Renaissance houses in existence. It contains over 400 rooms and the stables are supposed to have accommodation for 1,200 horses. One of its most unusual features is the spiral staircase, so arranged that one person can ascend and another descend without seeing each other

Rising at an altitude of 4,510 feet in the Massif Central, the Loire runs for 635 miles, with an average volume of 498 cubic yards of water to the second. past Nantes to the Atlantic It is the widest and longest of French rivers, but its volume of water is very irregular summer it goes nearly dry and enormous sandbanks appear in its wide bed with the rains and the melting of the snows it rises to 30 feet above its mean level and floods its valleys On account of the irregularity of its flow, the Loire is only navigable for a very short distance at the end of its course

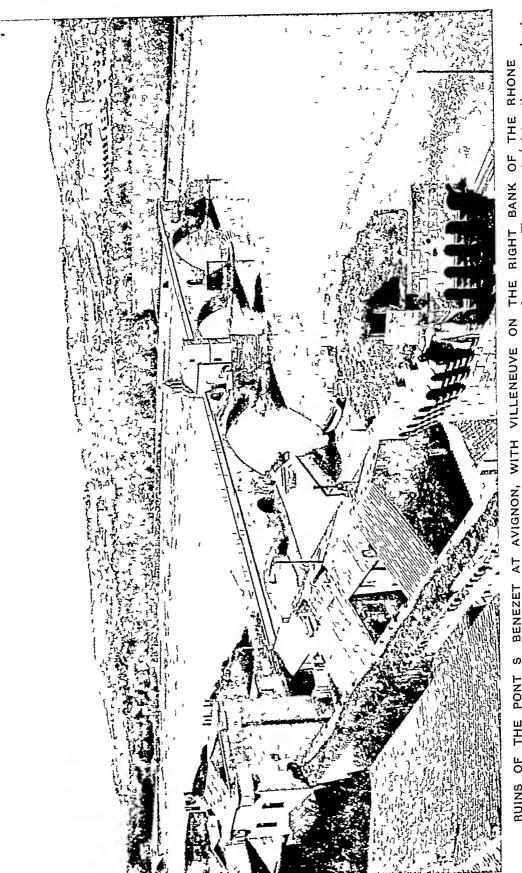
The Garonne rises in the Pyrenees at a height of 6,140 feet above sea-level Its actual source is in Spain, but after a few miles it passes into France and

The Rhône rises in the Swiss Alps at an altitude of 5,750 feet, and after flowing through Lake Geneva it reaches France, keeping for some distance in a westerly direction After receiving important tributaries it reaches the Mediterranean through a delta, which is continuously encroaching on the sea Its volume is very considerable, being some 2,860 cubic yards to the second, but it is also very variable, and after the rainfalls becomes a devastating torrent, often flooding the surrounding country for miles

Owing to the great energy and the enterprise of M Herriot, the French Prime Minister, who was for twenty years Mayor of Lyons, a far-reaching scheme for the canalisation of the



In the department of Seize-Hasen Server, the self letteren, is itselfed on the Haron There is a large under in grain and daily produce and nearly Son, tertiles and their are manufactured. The thedral is Colibic cities of the t editionate entires, but morred by the state root of the Son Server Server



Avignon is still surrounded by massive walls, built in the fourteenth century and studded with towers and gateways. surrounding district remaining a papal possession until 1791 The cathedral is a massive and sombre Romanesque The Pont & Bénezet was built across the Rhone in 1177 85 and was often restored, but has been in rulins since 1669 medieval fortifications, the best preserved ഗ THE PONT

Rhône was set on foot. It would supply electric current for the illumination of all the towns and villages along the river banks, and would furm h sufficient power to electrify all the railways throughout the whole of south-ea ten I rance. By virtue of the scheme the river would become navigable right down to the sea and through the Score France which they water for a large part of their course.

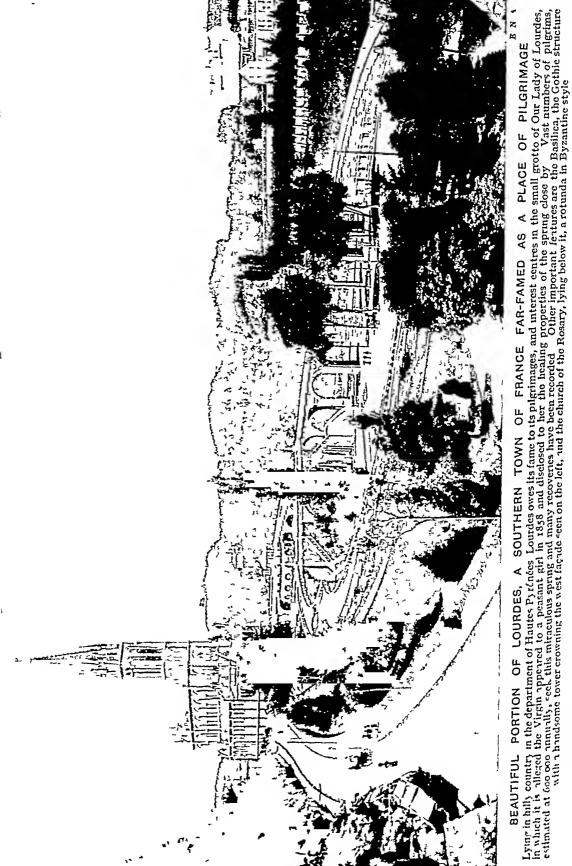
The ramfall conditions correspond in a large measure to the great fluvial hains. The highest figures recorded on the rain gauge over 40 inches annually are in the mountainou. It gion of the Pyrenees, the Alps the Jura the Georgies and the Central Plata au to



LOOKING TOWARDS AVIGNON AND ITS PALACE OF THE POPES Avignon land on the left bank of the Rhibren the dispariment of Vapiders. It has everal to district, their in concernous with sile, will a day a gooding produce but in better know for its historial executions and Levaltid structure. The Palace of the Popes, that it buttlements macking better making the palace of the popular produce the reliable than polace.

and the Seine which are already linked by a canal, would make a waterway unting the Channel to the Mediter ranean. Turough the Safore also and the junction which unites that rives to the Mulhouse Canal it would bring the Rhine into communication with Lyons and Marsellio.

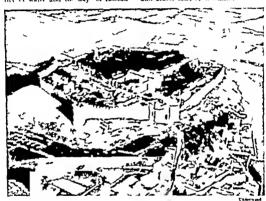
The Rhine runs for some part of its course along French territory and two of the major tributanes of its left bank, the Moselle and the Meuse come with the Schelde [Fscau] from which should be added the Landes. The Rhône Basin and the Lorrame slopes along the valley of the Meuse come next with 30 to 40 inches. The basins of the Garonic and the Loure receive more or less equal quantities of rain—that is to say about 25 inches yearly but the basin of the Seine, especially in the He de France with Paris for its centre, never attains that figure. The average rainfall in Paris is 21 inches. It is currous to note that this low figure is also met with in the



vallest of the Forez and the Limagnewhich are among the most fertile di tricts in France as well as in the plain of Languedoc, Camargue and Grau which are to be ranked among the proor t

The incolence of the rainfall 1 pretty regular it fall in all exacts but with a marked metrase during the coll period. The ratio 1 twen the quantity of water and the day of rainfall

Sologie which is part of Berry and is encircled by the bend of the Lorie south of Orleans the Land's which extend south of Orleans the Land's which extend south of the Medoc and Bor draw down to the bank of the Mour and Dombes between the Safine the Rh me and the Am west of the Jura range. Drainage and afforestation have already relamed a large part of these marshes and transfermed them unto arable land or wolland.

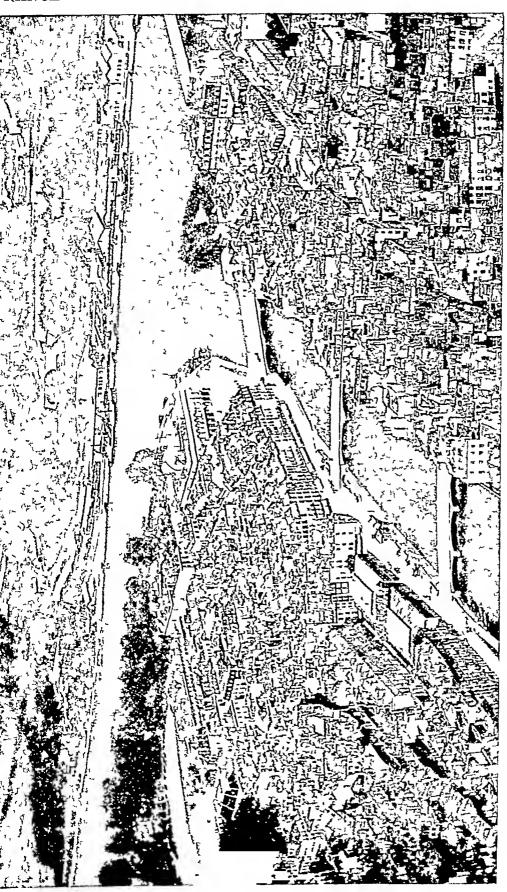


BIRD'S-EYE VIEW OF THE MEDIEVAL TOWN OF VILLENEUVE LES-AVIGNON
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varies con iderably. For example, 68 wet days suffect to give 23 3 mches to Marseilles, but Paris needs 170 to obtain only 22 incles 124 days of rains at Lyons give 23 incles, but 125 days at Clermont Fertand only give 25 inches, and or days at Redeaux 25 4 inches. At Nancy 146 days give 308 inches and 220 days are needed at Brest to obtain 324 linches.

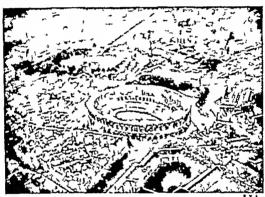
Owing to this moderate rainfall there are very few maishes in France are found chiefly in three regions. The page of the property of the page of the p Apart from the Lake of Genera, of which a large part is considered as within the French frontier there are but few lakes in France and small ones at that In Savoy we have the Lae du Bourget a little over 17 square miles and the Lae di Anney about 11 square miles, and south of Nantes the Lae de Grand Lieu with a superficies of 14 square miles.

France enjoys a far more temperate climate than other countries situated in the same latitude as the following



By onne less attractively at the junction of the Nive and Adour, three miles and a half from the Bay of Biscay, and contains a notable oitadel, old and new castle, and a benutiful medieval Gothic cathedral The three divisions of the town, which are formed by the rivers, are Great Bayonne, the most important, seen on the left bank of the niver Nive, Little Bayonne, the artisan quarter, on the right and connected with the former by three bridges, and the suburb of S. Esprit on the farther side of the Nort S. Esprit being just visible on the right of the photograph THE DEPARTMENT OF BASSES PYRENEES SEAPORT OF FRANCE IN SURVEY OF BAYONNE, CITY AND AERIAL

convincing example will how Paris is in the same latitude as Montreal but whereas in Paris the average temperature for July the hottest month in the year is 60°. Pahrinhet at Montrealt is is 6°.2 Lahrenbert. In the cellest month January the meant imperature in Paris 57.4 Lahrenbert while at Viot realitisuskia lowa 104. Its intrest ing toadd that the 5t Lawrence forces ing toadd that the 5t Lawrence forces and 75 in July. These readings become the more notable if we compare them with those recorded in other parts of Franc which leads us to conclude that diversities of geographical aspect are bound up with diversities of climate. The mountains are covered with now in the cell period and allow of winter ports. This impression is increased by the fart that the vigeta.

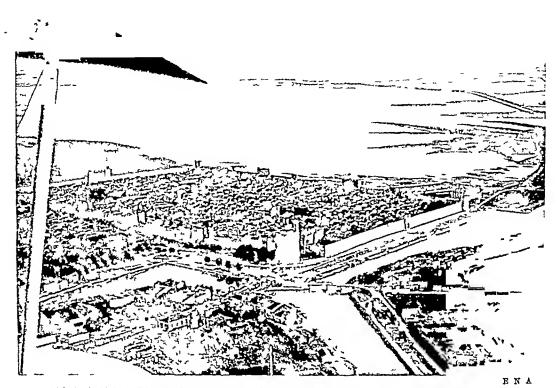


AMPHITHEATHE FROM THE AIR, MONUMENT OF ANTIQUITY AT NIMES 1 britis falls (if withheat of sage of L. adjusting the Crimes, in the day town in local, local local, and the britis of same and the same parties are not Roman main latter in suffernit supplies the insent consultant of preservate though of time from the first order of sections and light gains for the form of the con-

for I/O days in the year while the Scine like the Thames Ireves but very rarely. This mildjess of climate is due to the warm oceanic whols which reach the coasts of France and mildjate the winters cold. Thus Brittany and the Culf of Cascony (Barritz) are very mild in wint r while in summer the sea breezes afford a very welcome rebef from the heat

On the shores of the Methterranean the winters are particularly mild. The average temperature for the year at Nice is 60 being 47 in January tion in those regions never seems to slumber. Plant hrubs and most of the trees are continuously in leaf and never present the stark appearance afforded by the vegetation in the northern provinces.

This all-prevailing diversity is no less in characteri the of the vegetation of France whether natural or cultivated. There is scaredy any natural vegeta those in France save the forests. These are found mainly in the ext and north cast (Ardennes and Champagne) and in the mountainous districts of the



AIGUES-MORTES, WONDERFUL SURVIVAL FROM THE MIDDLE AGES Aigues Mortes is the most perfect specimen of a medieval town in existence The enceinte,

completed about 1280, forms a rectangle of 600 by 330 yards—the walls, from 25 to 33 feet in height, having fifteen towers and ten gates, it was from here that Louis IX started in 1248 and again in 1270 for the Crusades Much of the neighbouring country is under water

Vosges, the Jura, the Cevennes, the Alps and the Pyrenees There are, however, some wooded districts of considerable extent in the Ile de France. Burgundy, Morvan, Le Perche, and in Picardy

Lastly, there is the vast pine forest of the Landes, which, however, is of artificial creation and has transformed what was once a marshy and desolate tract into one of the richest and most flourishing districts in France pine produces resin, which is a factor numerous chemical by-products The forest of the Landes is under state control, and furnishes timber for mines and immense quantities of wood for heating The government also has control of most of the forests of the Vosges, Jura, Pyrenees, Savoy and the larch-trees of the Alps state it is, too, that is responsible for the systematic retimbering of the Alps in the upper valley of the Durance and in the higher reaches of the Tarn

between the Cévennes and the Central Plateau, a work that has been proceeding for some years

In the Albères district, at the eastern extremity of the Pyrenees, are some considerable plantations of cork-trees

There is practically no unproductive land in France The marshes have been filled in and dried by the plantation of pine forests, the poorer tracts of chalky or stony ground unsuitable for the cultivation of corn, wheat or cereals generally are favourable to the growth of cork-trees and also of the olive and the vine, one of the glories of France The vine does not flourish in arable ground, in rich soil The chalk lands where there is but a shallow layer of soil are best suited to its cultivation On the steep hillsides, where tillage is either difficult or impossible, where the rains make furrows in the ground, the vine clings fast to the soil, keeps it in place, filters the rain, and gives in rich

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QUAINT OLD-WORLD ARCHITECTURE IN A CORNER OF SALIES-DE-BEARN
Some ten miles north of Sauveterre de Béam (whence the splendid view of the Pyreners illustrated
in page 1932 is obtained) hes Salies de Béam, a small town with about 6,000 inhabitants which
derives its name from its salt springs, said to have been utilised since the sixteenth century

De-pite the fact that the water is cold it is used for bathing all the year round

abundance the wine which forms the Frenchman's favourite beverage and those choice and gracious vintages which are celebrated throughout the whole world

Nevertheless, the vine does not grow cycrywliere in France It is not found farther north than a line drawn from Nazaire at the mouth of the Lorre to Sedan in the Ardennes The richest vincyards ire those Champagne, Burgundy and Bordeaux The wines of Burgundy come chiefly from the Youne Valley (Chables), the Cote d Or (Benune) and from the districts of Miconnais and Beaujolais The vines of Bordeiux (clarets) -- at least the choicer vintages-are produced in the immediate neighbourhood of that city on the slopes of the banks of the Garonne and the Gironde is however an uninterrupted succession of vincyards all along the Dordogne,

the Upper Garonne and its tributaries, the Gers, the Lot, the Tarn and the Aveyron South of the Garonne, as far as the Pyrenees, the vine is cultivated also, and furnishes the famous eau devie of Armagnac But it is to the north of Bordeaux, in the Charente districts, that the finest cognacs and "fineschampagnes" are produced

In the eastern part of France and throughout the northern districts there are numerous hop gardens, and beer is the normal beverage of the inhabitants, as either is in Picardy, where orchards alternate with pasture-lands

The cultivated surface of France is 82 per cent of the total, the non-cultivated is 12 per cent, and the non-cultivable only 6 per cent. The cultivated portion is divided into tillagel linds 62 per cent, woods and forests 19 per cent, natural meadows and presslands 12 per cent. Vineyards



BENEATH THE WATCH TOWER OF THE ANCIENT FORTRESS OF FOIX Metted the freet In Tol. the chief forms of the department of Arther and risk feel by the inserned is rose. I said which taken Joseffyon from the Open thigh Till or several middles per of the from his the commercial and administrative center is considerable of the Light and the limited in analythmetical of destroys in the translational size of delical size of the first content of the considerable of the first content of the co

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4 per cent and the remaining 3 per cent is not to diserve uses connected with This extreme division aenculture of property in France arises from the fact that since the Revolution property is accessible to all that the law of primoceniture has been abolished and that children inherit from their narents in equal proportions. It thus happens that rural properties have to undergo frequent partition. Nearly fourths of the properties are farmed by their owners themselves. Farms held on lease amount to 22 per cent, and, on the system of tenure known as mutayage to 7 per cent

Of the total land under cultivation, 57 per cent, is devoted to the growing of cereals, 25 per cent being taken up by wheat, 30 per cent, by forage and 2 per cent, by industrial crops. The production of wheat has been developed and made general by afternating it with crops of cattle food which benefits the wheat and improves the cattle.

Apart from wheat the other crops are very varied but very charact ristic as, for example make which is grown in the Saone valley in the Pyrenecs district and round about the Garonne where the heat and moisture are especially favourable to its growth, Then there is the flax of Brittany Anjou Nord and the Lays de Caux Anjou colea in the lays de Caux and Nord sugar beet and chicory in Nord and French Flanders Catinals and the south west buckwheat in Limousin vegetables fruits in the Pays d lyignon and Limagne tolucco in Dordogne which must be added the cultivation



GLACIER'S INEXORABLE DESCENT FROM THE FLANKS OF MONT BLANC. The perpetual snow covering the loftier Alpine heights, gradually consolidating, is slowly forced by pressure above it into the valleys beneath, one of these imperceptibly moving masses of lee is the Mer de Glace formed by the conjunction of the Talefre Glant and Lechaux glaciers. Clearly illustrated above are the curved dirt bands resulting from the differential glacier motion.



TINY ROCK GARDEN AMID THE SNOW CLAD DAUPHINE ALPS
At an elevation of nearly 7 cm feet the Col do Lautaret is a taxonia. Althe proceed to the feet the Col do Lautaret is a taxonia. Althe proceed to the angle and control to the angle of the Core of the Color of the angle of the at the angle of the

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# I Journ and Coal Day Parlies

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(ecertaistical causes are in ufficient whells to existin the distribution of industrial centres. However the presence of coal exert # 15 example rating influence thereon whether because that comme lity is to be found on the pot in the nurse or I manse the canals and waterways make it of tainable at a low cost. Only in such districts has le been per this to establish the metallurgical indu try on a large scale. A consincing proof of that is afforded in a comparison of Lorraine with the Parences district. The fron works of the Anice and the teel works of Boucan are hampered in their development by coal transport difficulties while the proximity of the coal mines on the Saar and the coke works of the Rulit mak. It can

for the m-tallurged industry of Lorizon to upply the necessive life it creat lump as The Lorizone from mines produce a vill that i not lar lorizon from the fifty mill at tons of one per annum.

## Te tiles and Sericult re

The table industry has attained a light legice of leady ment, while some of the principal of rices of wallifur larger and plays an immensive important part in it, by a trade. The silk trad is sirred on in the Lyons distribution from the imagin neries?

All Philosophysis where in every large and in exery legic the inhabitants our silks sim.

With most are manufactured cliedly in the most is found about Lille in the Velonies (Schin) on Thampurgoe (Reim) and also in Postora Berry and Langue Je. Hong and flast ar worse in the Epostment of Schidan Lin Anjou, Maine and the Daughins! The cotton industry is carried on mainh in the right leading of the Angelia and at Smill Leanne.

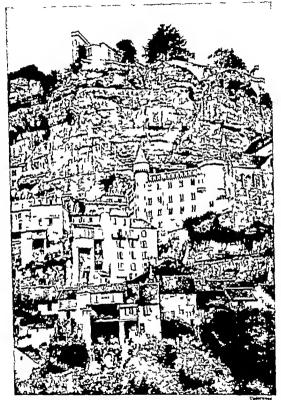
The net II sulle I of I an is particularly tikli in manufactures of all series An energined quintity of manufactured articles is produced there from the mest coully fresses furniture and perfumes to most engines and clumbal not fargetting those famous "articles de Latis" which are without a small in the workl.

# I rence a Tuet Short &

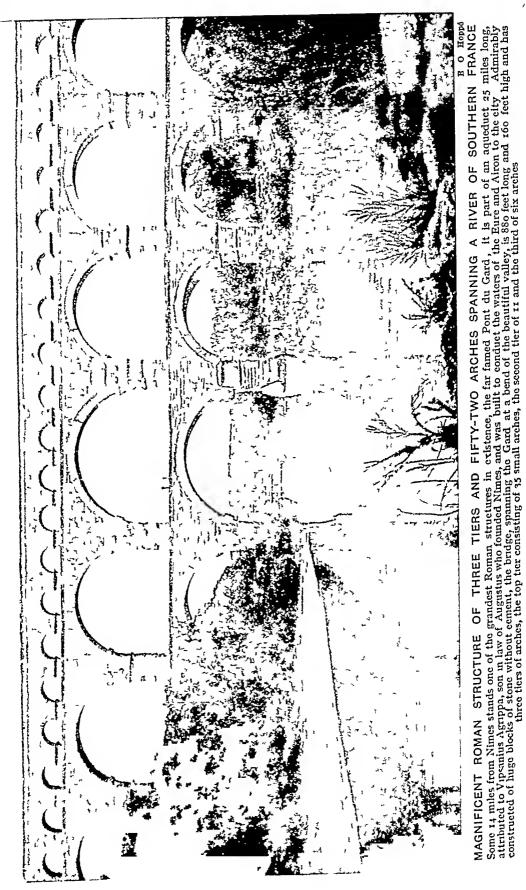
With an annual production of fifty million tens of iron ore. I rance might become one of the greatest manufacturing countries in the width of only le could provide herself with a sufficiency of first but as it is she has to lest her blax t formaces and foundries with coal from the Star and coke from the Ruhe in ord it to deal with her immunes quantities of ore. As a matter of fact. I rance only produces 4 per cent of the world's annual coal yield, and she is obliged to import about 60 per cent of the consumption.



ON WINGS ABOVE CHAMONIX AND THE MONARCH OF THE ALPS
High above the floor of the valley the aeroplane whence this remarkable photograph was taken is
flying in a south easterly direction. Immediately facing it is the stupendous Mont Blanc chain,
rising to its immense height of 15,780 feet, one of the most magnificent spectreles in all Europe, while
far below the little village of Chamonix straggles down the valley at the foot of the formidable heights



ONE OF THE MOST ANCIENT PILGRIM RESORTS OF FRANCE
The picture up and produced by the picture of picture of picture of picture of picture of the picture of picture of the picture of the picture of picture of the pictu



Before the Great War the imports and exports almost instanced one another in value but considered from the point of view of weight the exports are only 28 per cent against 72 per cent imports. France sells to England two million quarter gallons of wine.

The most important trade relations of France are with Great Britain, which takes over 20 per cent of her exports and sends her over 12 per cent of her imports. France is the tiltrd best customer of Great Britain after India and the US-A.

With a surface of 274.659 square miles France has a population of 39.210 one to which must be added 850 one living in the colonies and 578 one living abroad. The colonies possessions and protectorates of France cover a surface of 4.537,000 square miles with a population of 92,000 one. It is estimated that French is spoken by about 70,000 one people.

# Balance of Economic Porces

The Frenchman does not willingly leave his country. The population remams practically stationary and this condition of affairs gives rise to no little anxiety Nevertheless, certain economists and experts regard this stability as one of France's principal assets, as it means that she limits herself to the population which she is able to support. Now France as regards food, is practically self-supporting, which is tantamount to saying that one-half of the population feeds the other. This equilibrium of forces is of incomparable value from the economic point of view

Though France forms so wonderfully harmomous an entity three are, as we have seen strongly marked differences within her borders, particularly between the north and the south. The essential unity of France is, if we may so put it the result of a number of strongly, contrasted elements. Northern France by reason of its general characteristics as at were, a great carde round about Paris, the common centre, the focus of the fluval system and of the

valleys through which the roads and later on the railways made their way

The characteristic of the French Republic is a nowerfully centralised administration and all state affairs are directed from Paris. Paris is the residence of the President of the Republic in Paris sits the Parliament (Chamber of Deputies and Senate) in Paris are found all the ministries, the Embasses, the Cour de Cassation or Supreme Court of Justice, the Conseil d Etat which organizes the details of public administration and mterprets the application of administra tive law the Cour des Comptes, the controlling body of state expenditure and the Academies, representing literature, science and the arts.

## Administrative Divisions

Before the Revolution of 1786 France was divided into 33 provinces. But the Assemble Constituants proceeded to corry out a fresh division by splitting up the country mito departments. This division is still the basis of the administrative government of France. There are at present 89 departments. At the head of each is a Prifet who represents the government and is assisted by a Corriell Genéral elected by the mhabitants of the department.

Each department is divided into arrondissements, with a Sous-Prefet and a Conseil d Arrondissement also elected by the inhabitants.

## Best Rusdway System in the World

Each arrondissement is dwided into cautions, each canton into communes. The commune is ruled by a Conseil Munkapal elected by the inhabitants of the commune and presided over by a major. There are 36 000 communes in France.

France is reputed to have the best system of roadways in the world. They total 37 oor miles, and are divided into three categories—the routes nationales, the routes départementales and the chemias vokanux. The first are main tained by the state, the second by the

departments and the third by the communes The waterways, natural or artificial, have a length of 8,437 miles The water transport is equal to one-third of the railway transport. The regularity of the water-flow and the level nature of the country has made it possible to create in the north a very close network of canals Moreover, the north is a region in which industrial and agricultural activity is particularly intense and where the coal-mines are most numerous Coal alone furnishes a material proportion of the large transported

A glance at the different railway systems of France will show better than anything else the importance of Paris as the real centre, or rather heart of the country, for it must be realized that Paris is situated in the north. There are 30,800 miles of railway in France against a total mileage of 20,155 in Great Britain In 1857 the numerous small companies amalgamated into six big groups One of them is now owned by the state, the five others are owned by companies

> FRANCE GEOGRAPHICAL SUMMARY

Natural Divisions The Central Massif, the heights of Brittany, relics of the oldest mountains of Europe Four river valleys—Seine, Loire, Garonne, Rhône Paris Basin is roughly the valley of the Seine Pyrenees and Alps on the boundary are parts of the great Eurasian east-west mountain system. In the north-east Erance contains part of the Physics. France contains part of the Rhine—Moselle-Meuse-Schelde system, physically an intermediate boundary zone

Climate West European in type except in the south-east, where Mediterranean characteristics penetrate from the south, mainly up the Rhône valley

Vegetation and Crops Forest on the higher ground, cultivated on the lowlands Forest on the The best wheat grower in Western Europe Sugar beet, oats, in the north, grapes, olives, mulberry leaves, in the south Fodder crops for the widespread domestic animals, and hence independence of foreign supplies of meat

Products Coal and iron, on the eastern edge of the Paris Basin, promise a great development in the metallurgical in-Potash in Alsace Textilescotton and wool in the north-east, silk in the Rhône valley Wine in Champagne, Burgundy and Aquitaine

At present the air-port of Le Bourget, near Paris, is a centre of radiation for a whole cluster of great air routes, and the various air lines have amalgamated in a single company under the name of the Air Union

Ever since its inception the air service to Morocco has made uninterrupted progress and since 1922 there have been daily departures from There is also an extension Toulouse from Casablanca to Oran and services from Algiers to Biskra and from Dakar to Keyes in Senegal

well-devised scheme Bya premiums and subsidies the state contributes to the prosperity of the air their extension lines and to development

The harmonious variety of provinces with all the graduations of a temperate climate, as well as all kinds of landscape, soil, vegetation, her agriculture and industry more evenly balanced than in any other European country, all this multiplicity of cause and effect distinguishes France from the other great civilized nations of the world

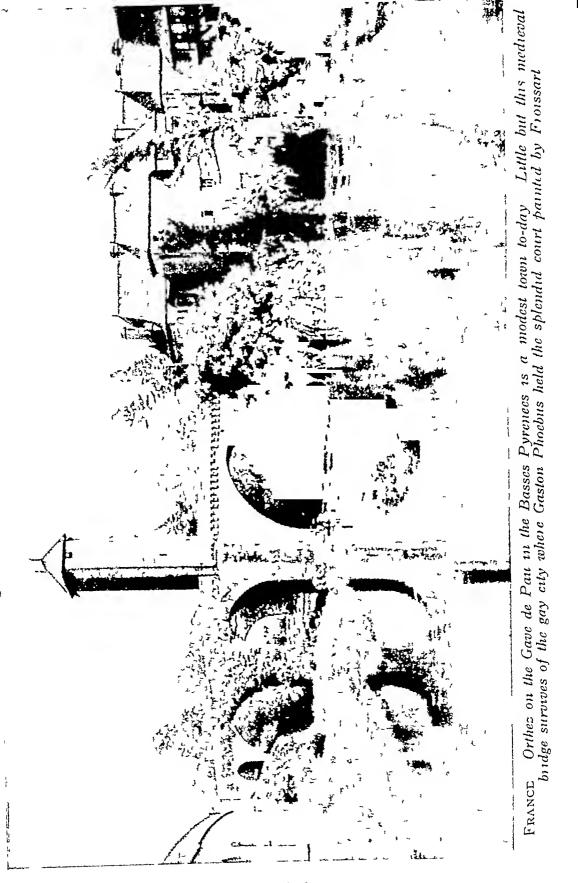
Communications Peripheral coast ports Havre, Nantes, Bordeaux and Marseilles are the termini of the main routes The Havre route radiating from Paris includes the ferry towns—Dieppe, Boulogne, Calais—and leads to London and the Atlantic service The Bordeaux route leads direct to Madrid, the Marseilles route opens to the Mediterranean In addition land routes to Belgium, to the Danube and Vienna, to Switzerland and Italy take advantage of openings in The gates of Toulouse the land frontier provide Burgundy for connexions The rivers are not so useful as the Elbe or Rhine, but the canal system, especially from the Seine to the Low Countries, is of considerable importance

Outlook France is the nearest approach in Europe to a self-contained country Her position with reference to her great African dominions across the Mediterranean Sea may be regarded as a complement to her strong economic position Security on the intermediate eastern frontier is a prime necessity With that guaranteed, France has a measure of independence which is only comparable With that

with that of the United States



FRANCE. Perched on a m dle point of volcanic rock the church of 5 Michel d'Aiguilhe is the glory of Le Puy in the Hante Loire



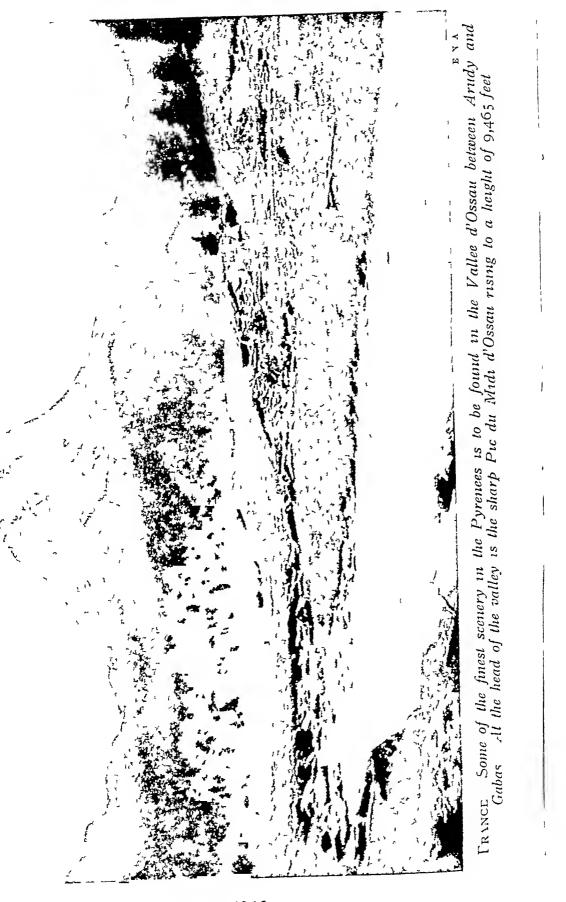




France In its 300-mile course from Puy de Dôme to the Garonne the Dordogne flows through the fairest scenery in south-west France

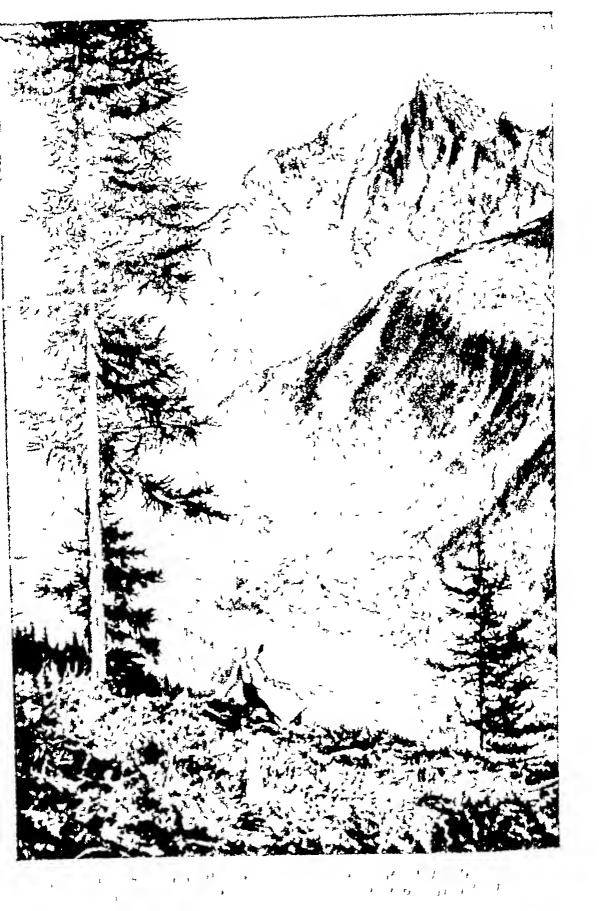


FRANCE. Craffel shift and a touch of poetry are given to the roads in France by the poplars that line them on either hard





FRANCE. Martellous engineering feats have opened a tay for traveller from Grenolle to the mountains. Violucis spanning rifts in almost sheer cliffs afford cutranenty tiens ever the valler. I the Drac



### GENEVA

# Lakeside City that Has Led the World

## by Francis Gribble

Author of "Lake Ceneva and its Literary Landmarks

Till area of the Canton of Geneva is only 108 square miles. Its population of the city at the same date being jut over 135,000. They are in indicant figures limit the interest and importance of the place have always been out of all proportion to its up. The eyes of Lurope were already focus with upon it when it was a little larger than linit-ford and not quite as large as llarm taple. It has a unique is stuation and has had a unique h tor.

Built on the banks of the Rhône where swiftly as an arrow it duris from the lake the city follows the course of the river toward, the point where the brown multis stream of the Arve desc nds from the Saxos glaciers to mingle with its blue waters. It has also expanded along the shores of the lake in the direction of the French frontier on the one hand and the Canton of Vaud on the other. The pine-clad slopes of the lura rise behind it while from the lake front one looks up at the dark ridge of the Saleve (now climbed by a mountain railway) and sees in the distance the imposing snows of Mont Blanc, first visited by tourl to from Geneva-William Windham of Fel brieg in Norfolkshire and Dr. Pococke afterwards Bishop of Meath-less than two hundred years ago

#### Old Town Obscured by the New

To the seeker after architectural antiquities the place is apt to be disappointing New buildings predominate palatial hotels lining the lake shore white blocks of residential flats broad boulevards worthy of Paris large shops stocked with all kinds of merchandise and particularly well stocked with

iewelrs and furs. The new town in short wamps the old and much of the old town -never much larger than Sandwich-fus been demole hed. Great fires relatively as disastrous as the Fire of London destroyed a portion of it Italian stonemasons have been called in to attack the rest and set up huge buildings of antiorm ugliness replete with modern conveniences in place of the picture-que but maintary dwellings of the past. Visitors who come to Geneva on shorome expeditions may pend a long time there without discovering that it contains any old town worth attending to

#### Where t Find OH Green

Still something of the old town does remain albort masked by this façade of modern masonia.

On the south side of the Rhone rises a full-rather steep but not very lugh -covered with houses and crowned with the towers of a cathedral Old Geneva is over there and up there-more par ticularly up there. One can if one likes, ascend to the highest point by a flight of steps-the Derrés des Poules fin the cathedral) - which recalls an earlier age The hill was once fortified the harbour being defended by a boom and the rates used to be locked at night. Was it not because he found himself locked out that Jean Jacques Rousseau ran away from home and embarked on his career of adventure?

The walls were pulled down in 1848 but the Promenado des Bastions still remands us of them and various old buildings packed pretty closely together recall various old memories.

Most notable among them is the cathedral Itself a Gothic building to

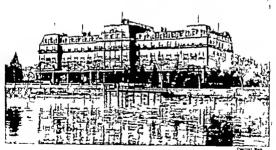
colleges. A little further removed is the town hall of Floreutine architecture approached by an inclined plane instead of a staurcase enabling the town councillors—grave ponderous and portly men—to be carried to their seats in litters. It was in one of the halls of this building that the arbitrators delivered their judgement in the famous Alabama case.

Just opposite is the Arrenal with its Historical Museum and some of the relics exhibited there recall the memories of a very proud day in Genevan annals.

Geneva it must be premused became an independent republic early in the fifteenth century as the result of a revolt arounst the rule of the Duke of Savoy The struggle dragged on for a good many years and produced its martyrs Philibert Berthelier whom the duke beheaded and to whom a memorral has been erected on an island in the Rhône Jean Pécolat whom the duke caused to be hung up in an absurd posture in his banqueting hall in order that he might watch him wriggling while he dined and Bonsyard who suffered durance as the Prisoner of Chillon. But in the end, the duke was ejected.

The memory of the ejection rankled The recovery of Geneva continued for nearly eighty years, to be the fixed objective of the foreign policy of Savov and at last in 1602 Duke Charles Em manual of Sayov made a desperate and treacherous attempt to rush the town at the dead of night. That enterprise is known as the Escalade and the anniversary of its ignominious failure is still the occasion of annual rejoicings-a procession attired in the costumes of the period passing through the streets and a proclamation commemorating the event And in the being read by torchlight Arrenal Museum one is shown not only the cantured scaling ladders, but also the cauldron which a worthy woman who was making soup for an early breakfast pitched, with its scalding contents, out of an upper window on to the head of one of the duke a soldiers, to his great discomfitime

That perhaps is all that need be said about the topography of the old Geneva Readers who wish to follow up the subject must be referred to the works of the local antiquaries. But one may remark before going on to speak of contemporary Geneva that the city



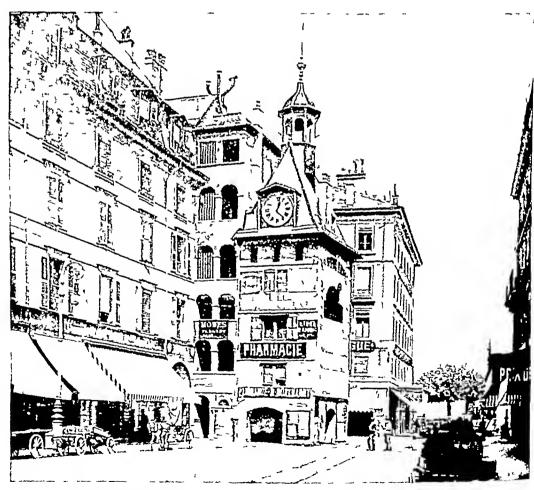
STATELY HEADQUARTERS OF THE LEAGUE OF NATIONS, GENEVA In Improved bothers, the Palza det N boas, formerly the National Hold, as now the seat I the Laugue of N boas established by the Treaty of Varsallies, 9, 9-9. Genery, has instituted many humanizarum movements and the choice of this commophitian city as the bridging term of the Common terms o

has gradually shaken off the theological and Puritanical fetters which Calvin imposed upon it, and which caused John Knox, who took refuge there from the persecution of the Bloody Mary, to speak of it as "the most perfect school of Christ that ever was in the earth since the days of the Apostles"

Not only does it possess a monument nowadays in the Salle de la Réformation to Calvin who burnt Servetus, but another near the Hôpital Cantonal to Servetus whom Calvin burnt, the last of the fierce theological controversies which have shaken Geneva was that which raged over the wording of the inscription to be placed on the memorial To such a pitch did tempers then rise that a local wit proposed that each of the parties to the dispute should be assigned a separate slab on which it should be free to inscribe any sentiment that it chose

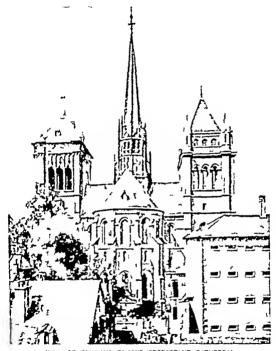
Meanwhile the theatre, banned by Calvin and several succeeding generations of pastors, had established itself in the town, thanks largely to the civilizing influence of Voltaire and M de Beauteville, the French ambassador, and now there is not only a theatre but a kursaal, in which a mild form of gambling is permitted

Divines thundered their objections to both institutions. As the result of the dramatic representations, they declared, young men and young women would "occupy themselves with nothing but comedy and vainglorious display," and



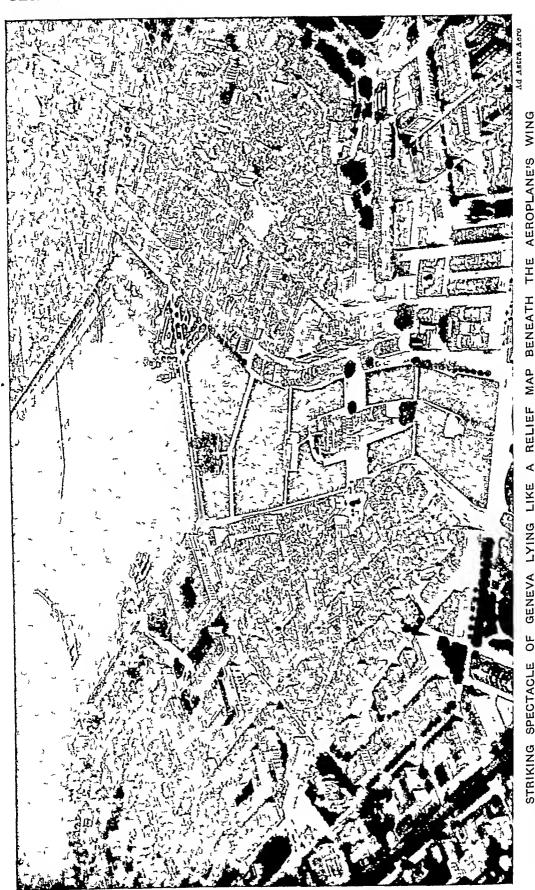
OLD CLOCK TOWER GIVES THE TIME OF DAY IN PLACE DU MOLARD The Place du Molard lies near the Rue du Rhône, a busy thoroughfare running parallel with the Grand Quai. The Clock Tower recalls to mind a notable industry of Switzerland, for clock and watch making, closely identified with the country, is given a place of honour among national industries, and since its introduction in 1587 Geneva has kept her reputation for fine watches

1953 GFNEVA

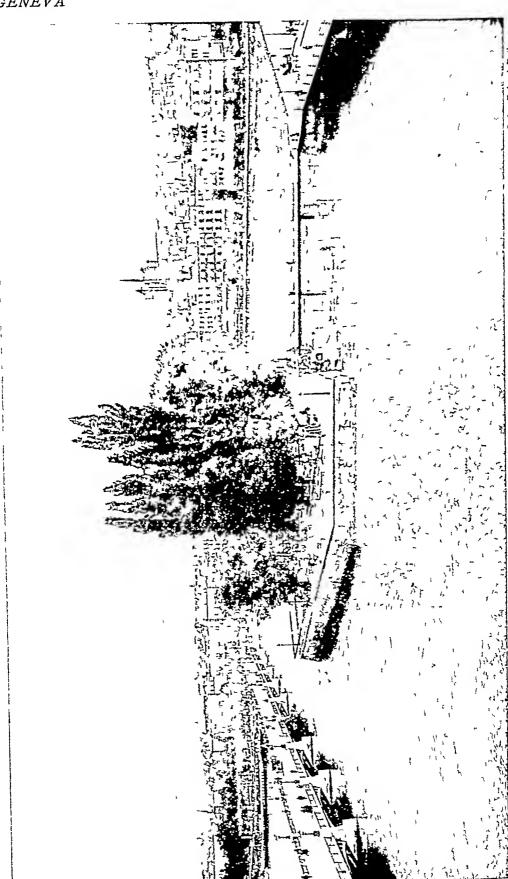


VIEW OF GENEVA'S FANOUS PROYESTANT CATHEDRAL
Standing on the lighest pair if the literal informs the Cubelci is the termining raceful
preform on present and day for distinct. I created as the tilt creatury it a rebuilt
a transitional folial stronger in it twelfile and thatevalls, books most of the
last data from it in days, and Kranisance if these are added to the glorest feature.

"libertine behaviour would take the place of mode-ty and clustify. The opening of the kursaal they predicted would staract an understate class of visiton and thereby curring the simple morals of Ceneva lank clerks and shop avistants. I sperience however has happily proved these fears to be unfounded. In spite at its distractions, Geneva remain a very seriou city. Its abliding entlin a m for education is attested by the fact that no less than one third of its annual budget is devoted to the



, breakwaters have been constructed to protect the harbour and commodious the old part, which is the more important, being the commercial centre, lies on Nont Blane, while the Jette des Paquis and the Jette des Baux-Vives are seen like fine silver bars cutting the glassy surface of the lake Geneva has grown rapidly Emerging from the lake of Geneva the Rhône divides the town into two parts, the left bank Since the middle of the nineteenth century Geneva has grown rapy quays line both river and



behind it in mid streum is the Rousseru Island, adorned with beautiful trees and a bronze statue of Geneva sean Jacques Rousseau, and united to the Pont des Bergnes by a footbridge Where the swift waters of the Rhone issue from the lake of Geneva, the Pont du Mont Blanc, seen on the left, stretches from bank to du Mont Blanc—which commands a fine view of the snow clad peaks of the Monarch of the Alps—with the Place du Lac and the Grand and was constructed in 1862 and widened in 1903, behind it in mid etreum is the Rousseau Island, adorned with beautiful trees and a and was constructed in 1862 and wideneds son, Jean Jacques Rousseau, and united to the Pont des Bergues by a footbridge VIEW ACROSS THE RHONE OF



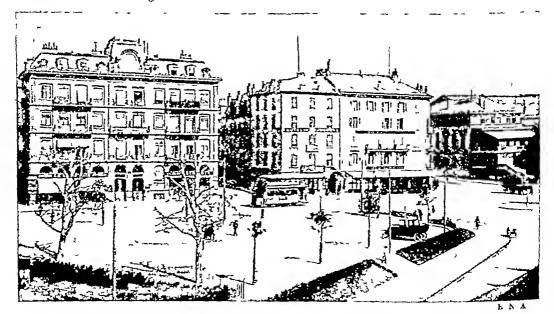
narrow strip of territory gave Geneva its increasingly cosmopolitan flavour, while the traditional discipline of the place, modified though it was by the moral and intellectual progress of the world and by increasing intercourse with neighbouring peoples, generally prevented their activities from becoming mischievous, and turned cosmopolitan tendencies into channels profitable to humanity at large

Rousseau's influence—his statue can be seen on Rousseau Island—began to count for more than Calvin's The philosopher was as proud of having been born a citizen of Geneva as of having become the apostle of the Rights of Man His "Vicaire Savoyard" has been described as "a faithful likeness of a young Calvinist pastor," albeit a Calvinist who had lost his creed. His spirit inspired the Red Cross Movement, initiated after the battle of Solferino by Henry Dunant, the Puritan mystic

Other humanitarian efforts in the interest of such oppressed peoples as Greeks and Armenians were launched at Geneva in the course of time. International disputes, like the Alabama trouble, were brought there to be

settled by arbitration, while during the Great War Geneva became the clearing house for the correspondence of prisoners of war, as well as of other movements for the mitigation of the horrors of strife. So it came to be said with perfect justice of the Genevans." Their state is the Republic of Man, of man who being himself emancipated, yet proclaims himself the brother of the rest of humanity."

That is the record which made Geneva a more appropriate site than Brussels, or even The Hague, for the headquarters of the League of Nations Not only is it more cosmopolitan than either of these rival capitals it is also more disposed and better qualified to resist the political or social pressure of any interested power Consequently, when the choice of the powers fell upon Geneva, it was generally admitted to be the best choice that could have been made, and little attention was paid to the protests of rival claimants to the distinction, and there the League is firmly established, with its Council, its Assembly, its committees and its subcommittees, and its grave deliberations in the Palais des Nations



QUIET CORNER IN THE PLACE DE CORNAVIN, GENEVA

There are few public structures of outstanding interest in Geneva, despite the fact that the city is a famous religious, educational, scientific and literary centre. The principal secular buildings include the theatre and Athenaeum, numerous muscums, a sixteenth century town hall and an academy founded by Calvin. The Place de Cornavin lies on the Rhône's right bank.

### GERMANY NORTH

# Mid-Europe's Far-stretching Lowlands

## by W H Dawson

Author of "Germany and the Germans, etc.

THE physical aspect of North Germany is that of a general unity in spate of all diversities. Nature might seem to have gone about her work in that region in no haphazard way her rough tools have been fire see and water with convulsion and cataclysm of all sorts, but the result is a certain organic completeness, represented to-day by a congenes of term tories which form both geographically and hydrographically a fairly well balanced and self-contained system

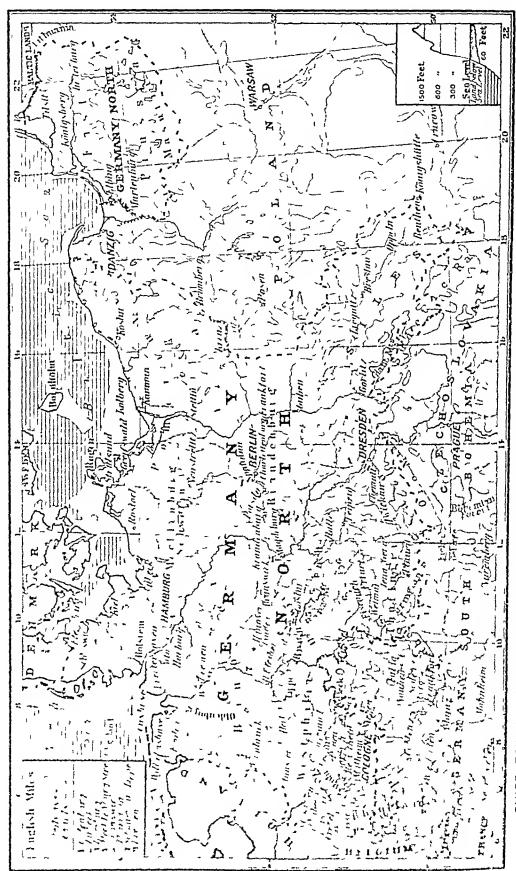
Politically North Germany as here understood, comprises almost all the states grouped by Bismarck in the North German Confederation created in 1807—in other words, the whole of Germany with the exception of part of the Rhine Province Bavaria Wurttemberg, Baden and Hesse The territorial boundaries of this area are in the east Russla and Poland in the south three of the German states just named, with Czechoslovakia in the south-east in the west Helland and Belgium and in the north Dennark.

#### Eclipse of Old Monarchies

Prussia with its twelve provinces, naturally predominates in North Ger many being twice as large in area and nearly four times as large in population as all the other states put together while Sexony to the south, follows at a prent distance both in size and number of inhabitants. The other states are Mecklenburg Schwerin on the Baltic. with Mecklenburg-Strelitz to the east of it Thurmeia in which seven of the old duodecimo states of Central Germany have been amalgamated Oldenburg lying west of the Weser with a broad frontage to the North Sea Brunswick. Anhalt, Waldeck, the Lippes, all these five being enclaves in Prinsian territory and the Free Cities of Hamburg (treated elsewhere) Bremen and Lubeck. the old monarchies whether kingdoms, grand duchies, duchies or principalities have been reorganized on a republican base and to-day are known for the most part as Free States though in some of them the monarchical spirit is still strong and only awaits a favour able opportunity for reasserting itself The combined area of the North German territories is about 242 000 square miles and its population 431 millions, or over two-thirds that of the whole realm The ratio of the Protestant to the Roman Catholic population is about three to one, but in the Prussian provinces of the Khineland, Westphalia and Silesia the latter are in a majority

#### Dividing Backbon of Ranges

The most distinctive physical features of the country are a vast lowland, spreading out to the sea coast from Central Germany and behind it the backbone of mountain ranges which divides North from South Germany and serves as a sort of stepping-stone to the high Alps. Starting in the west from the Ardennes, on the Meuse the first range of the series comprises the Slate Mountains of the Rhine basin-of which the Hohe Venn Taunus Hunsrick Rothaar Eifel and Siebengebirge (Seven Mountains) reach heights of from 1,500 to 2,500 feet The mountains of Thuringia, rising in places to nearly 2,000 feet follow with isolated ranges like the Harz and Rhon lying north and south-west respectively and beyond them to the east stretch the massals of the Fichtelgebirge, the Ore Mountains and the Glant Blountains, with elevations ranging from 4,000 to over



B₹ NORTH GERMANY AND ITS COASTLINE WASHED TOWNS AND COMMUNICATIONS OF CHIEF

5,000 feet while in the south are the I rankeli Jure and the great Bohemian borest. A small mountainou district lying a little north of Dresden where rocks forest and river combine to make some of the most pecturesque scenery in North Germany, has been given the complimentary name. Saxon Switzer Intl. "The di-trict between the Rhue Sea These main waterways however formonly a small fraction of the German river system. For the secondary rivers and tributaries number nearly 150.

On the North Sa Germany has a scalourd whose greater part falls to Schlesing Hol tun while its Baltic coa't has a length of 850 miles. Both wet and ca't of the pennyula



Cost of the there adependent Hause the town. Tables it and on the Trail boat ten miles from it mosts it is reportant to post it it is one of the there adependent Hause the town. Tables it and the leading to be the time to the post it is in one of the boad the leading in additional to be backled, leaving and it fillow clears and marketown are manufactured. The city will contain remainteners of it melies after town in it lets to tweet and it and the global boates.

Tibe and Harz is regarded as the tradle of the earliest Germanic settlement.

From the Central German lighland five of the six great rivers of Germany issue into the wast northern plan through which with many meanderings they find their way to the North and Baltic Seas. Into the former flow the Eibe, Weer and Rhine the Baltic receives the Memel or Nemen, Vistula and Oder while the Danube though rising in Germany Issues in the Black

which divides the two seas are many islands, mostly of small are the best known being Heligoland in the North Sea and Rügen in the Baltie. The cuttine of the Baltie coast is broken by many picture-que bays and creeks spreading far inland, and characteristic of the same coast are the freshwater halfs or lagoous, several of large extent lying belind narrow belts of sand thrown up by the rivers. A striking feature of the Baltic hinterland are the lake



On both sides of the Elbe about 15 miles north west of Dresden lies Melssen, one of the most ancient towns in Saxony and widely noted for its manufactures, especially

di trecta of which three are particularly noteworth -those of Lat Pru sa I merania and Mecklenbur 11 1 tein In a smaller then haven a maintic cluster of lakes. Latther inland some maller rivers like the Spree and Has 1 also form lakes of con 11 rald, we mith course of their lunn h wandering scanard, and the famer of these treams in pa ing threugh a di trict Lnown a the Spree I gest south of Berlin serves for seme la tance as the only buchesis for traffic. The lakes and hear of North termins his small number at 1 at five him trel

#### Lestores of the Crest North Phile

Lacord in the west the North Commin plain present a considerable degree t uniformity alik in physical feature well and elemate. No my intain ran to and comparatively few hill break th fortime three great winds leading the error vallers, then hind without attraction have lattle of the charm and pone of the romance of the valleys of the Rhine country and a large 1 att of the surface t enter ut to freet and com-growing. The level part of the thin are in the eart where the metil in of the nivers Oder Store Havel Netre has converted val and Warthe tracts of country into swaming west are large expanses of moorland and heath of which the best known are the Lüneberger Moor the Last I medand Moor and the Bourtanger Moor Much of this moorland is so swamps, as to be impassable while the sterile nature of the collebration makes its entireation unprofitable

There is great variation in the climate of North Germany as between west and east. The warm winds from the Atlantic give to the wastern districts an advant age enjoyed in lust small measure is the eastern with the result of a difference of at least ten degrees in their mean annual temperatures. The most genial climate in Germany is found in the valleys of the Rhine and its tributaries in the west, while the farther one goes eastward from the Libe the naver is the

climate and the severer and longer are the winter months until in the extreme northeast Ru ian conditions may be said to privail here winter begin as a rule cash in December though often in November and last until March or Uptil whil the riv rs are far frozen for several menth together and water communication with the outer world altegether ceases.

#### Clim t a Contracts | Ea t and West

Owing to the difference of seasons field with which can be continued in the Rhenish lowlands until far in Decimber to be resumed in February i normally upended or at lea t interingted in the eastern provinces from N sember until April owing to frost now and rain. In the more inhospital all parts of these provinces the period of segeration taxts only for four or five month. The rainfall is also beaver and most equal I throughout the year in the west than in the east where large areas regularly suffer from drought in what hould be the growing season.

#### Frank Libe Foreste

The effect of altitude and climate is to create a marked differentiation between the vecetation of North Germans and that of the South, the flora of the higher mountain districts taking a sub-Moune and in part on Alpine character, which is altogether absent from the northern plain. Much of the hilly country is thickly covered with forest, though in proportion to area North Germans is not so rich in tryes as the South Large areas of forest are owned in the states and by municipal authoraties, which cultivate them on strict commercial principles and derive a considerable revenue from the sale of timber Conferous trees predominate in the east while in the west and on the coast there are extensive forests of beech oak ash and elm.

Many representatives of the early wild fauna still roam the mountain and forest regions of North Germany. The beaver badger of ter and fox are common the wild boar and the wild cat infest the larger forests, and the mink and even the wolf are occasionally seen in north-eastern Prussia. Much has been done by restrictive forest laws and a singularly efficient state forestry service to preserve from extinction such interesting survivals of the olden chase as the stag, elk, roe and wild boar

### Bird Life in the North-East

Except in the pine and fir districts bird life is abundant, and the northeastern regions in particular are rich in Many birds, however, are songsters gradually disappearing from ancient habitats, among them the lieron, black stork (the white stork can usually be seen in the vicinity of quiet country villages) and the raven, while the draining of much swampy land is gradually effacing its distinctive bird life, but wild geese and duck, cranes, grouse, woodcock, snipe, quail and small game generally are still common The rivers, lakes and lagoons provide a large proportion of the fish food consumed by the population

### Wonderful Network of Waterways

The extensive hinterland of Germany and her growing dependence on foreign trade have compelled her to develop to the utmost every practicable method of transport How important for commerce her rivers are is shown by the fact that the Rhine is navigable in Germany alone for a distance of 450 miles, the Elbe for 460 miles, the Weser for 280 miles, the Oder for 460 miles all these waterways are large and prosperous inland towns with fine harbours, equipped with the most efficient facilities for the rapid handling of Such are Cologne, Duismerchandise burg and Ruhrort, Dusseldorf, Breslau on the Oder, and Berlin on the Spree. a tributary of the Elbe

The value of the natural waterways for transport is greatly increased by an extensive system of canals. The largest undertaking of the kind is the Kiel ("Kaiser Wilhelm") canal, which was built mainly with a view to naval considerations. By means of the network of tributary streams, canals and lakes, nearly all the large waterways of North Germany are now intercommunicable, forming a transport system unique in Europe. The aggregate length of the navigable rivers, canals and lakes of Germany is no less than 7,576 miles.

The country has an excellent railway system, which still comprises 34,000 miles of main and secondary lines, or just as much as before Alsace-Lorraine was lost to Germany Practically the whole of the main lines and all but a small percentage of the secondary lines are owned or managed by the state. The road system of North Germany, though good, is probably inferior to that of France

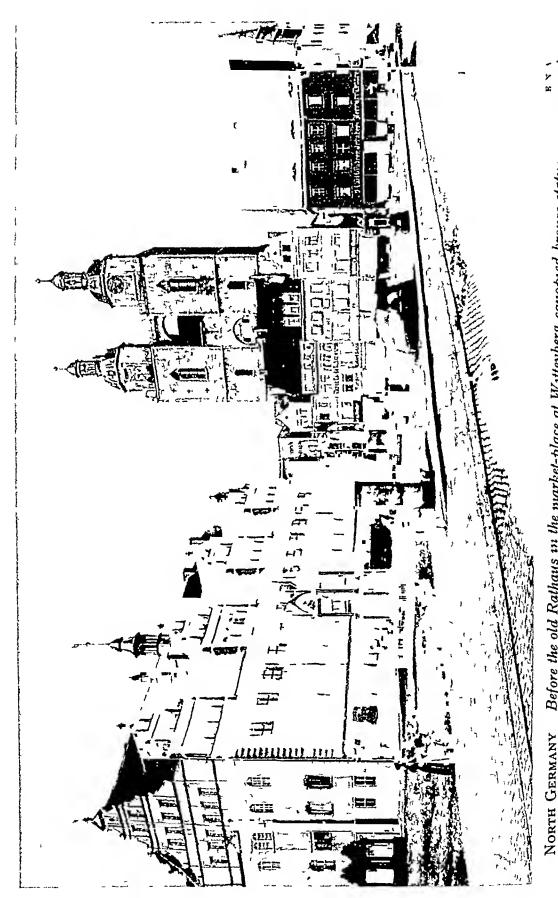
# Efficiency on an Unkindly Soil

Nearly two-thirds of the surface of the country consists of cultivated land, meadow and pasture. The last comprehensive agricultural census showed that of the total area of Prussia 51 per cent was corn and garden land, comparing with 57 per cent in Salony and 49 per cent in Mecklenburg, while the proportions under meadow and pasture were 15, 12 and 13 per cent respectively, and those under forest 24, 26 and 18 per cent respectively

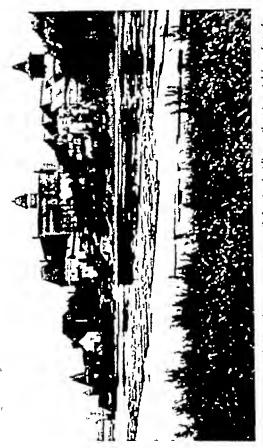
Except in a few districts, particularly in the west, the land is not specially fertile, and the north and east abound in expanses of sand, which yield on the whole a poor return Agriculture is saved, however, by the existence of a peasantry, efficient numerous and working little farms on the intensive principles natural to the small man who knows that every hour he toils puts something into his own pocket principal cereal grown is rye, still the food staple of the greater part of the Although by the Treaty population of Versailles Prussia lost a considerable area of corn land, about two-thirds of all the cereals produced in the realm are



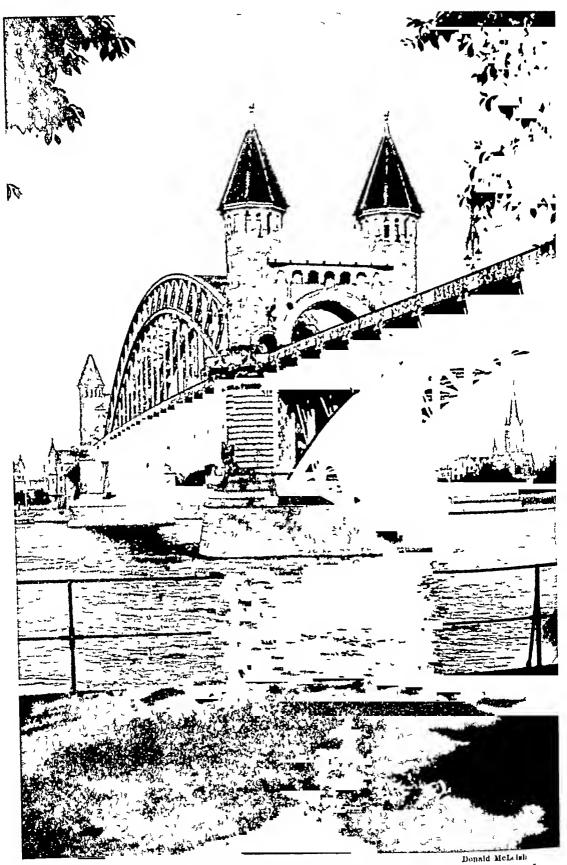
NORTH GERMANY An interesting inedereal feature of Naumburg in Prussia is the Romanesque-Gollac cathedral with four graceful towers 1965



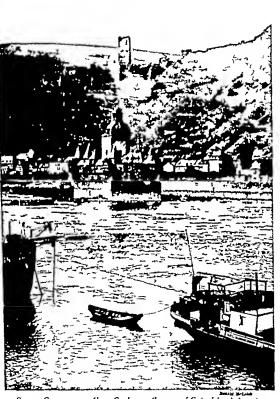
Before the old Rathaus in the market-place at Wittenberg canopied bronze statues commemorate s Inther and Melanchthon—In the Stadtkirche, seen on the right, Luther frequently preached the great reformers Luther and Melanchthon



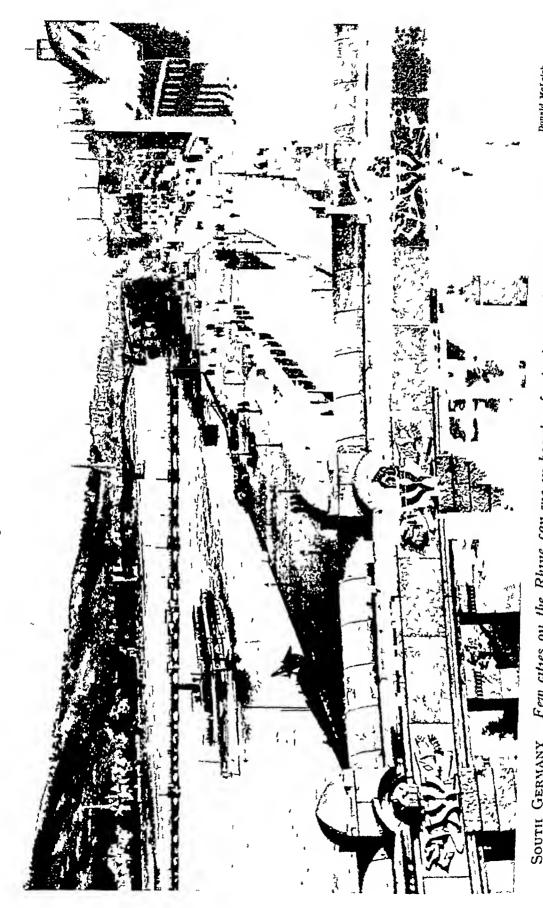
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South Germany This imposing bridge spans the river Rhine and connects the residential town of Bonn with Beuel, an industrial district 1968



SOUTH GERMANY Above Canb ruses the rum of Gutenfels before it in mid Rhine stands the curious chiteau of the Pfale founded in 1314



South Germany Few cities on the Rhine can vie in beauty of situation with Coblenz There is a fine view from the William I monument, commanding this fine sweep of the Rhine, its broad quay and notable bridge of boats

SOUTH GERMANY The fortress of Ehrenbreistein modernised in the inneteenth century, overlock the Rhine and the Moste Coblem Litroughedd for centumes it played an imperiant part in the Thirts. Years II are



South Germins—In the broad valley of Bavaria's Red Main is Baireuth, famous for its association with R chard Wagner, the Festspielliaus, the chief Wagner memorial, being seen on the hill in the central background

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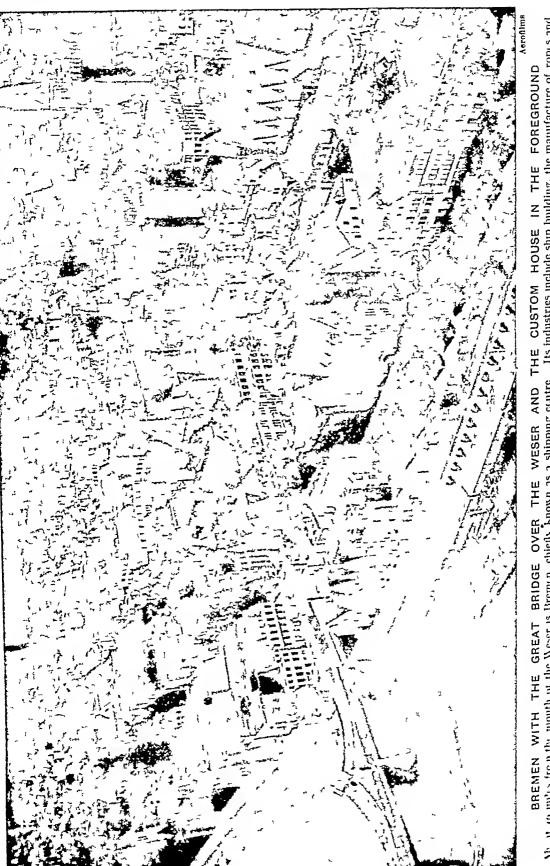
All il fruits promist to a temper t elemat are from with st at over womenlier or aler and m m of them complete in Nath Germany TI vine is de sum more at Imme in the south than th north, but it lie lien per fored in Savony and Lam e Sikela throigh of ud specquality Attimpt were male not without con iderable enterpri e on the part of the people cincinned to star win as far to the rait as Liven which formals

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the substructial subled houses looking out upon the narrow winding streets of the Its industries include ship building, the manufacture of ropus and e meeted with prepring sugir and rice for the consumer. The substantial gabled houses looking out upon the narrow winding streets of the elected in the city. The Romans que cathedral is said to have been creeted between 1014 and 1101, but was greatly affered in the thirteenth canture, and the Rithaus mainly 6 other, is remarkable for its richly decorated oriel window and handsome gable. We it to mive from the mouth of the Weser is Bremen chiefly known as a shipping centre the the traction of the city

of rural North Germany are the fruit tree, which often line the tail from the little market town and safe see for into the open country.

While the agreemental anl empta inter t ment holes impedant a place in the life of it North Certificati n alv th 1 71 mit i tracs I we pixel to the winter tth sa ma h fit This is emin n to the exited moral width in re amerint. an-l 141111 Mark Ithia Milli ff'n mt tle linl Irn rand I lind result of the form W. r. Lit Germany i till teh en nutual to mo **(H** e i laberrare LIC IN I Junctured Wie t tn ti thilin (# Rola) ANT Char II was my Lower Sternmand I mer ele inn ia to atel mille auantites in a mimber of alert dates The Robe t In in to the main source distribly its by Liction lating the (rat War I mg mor than one half The cathe German Coll

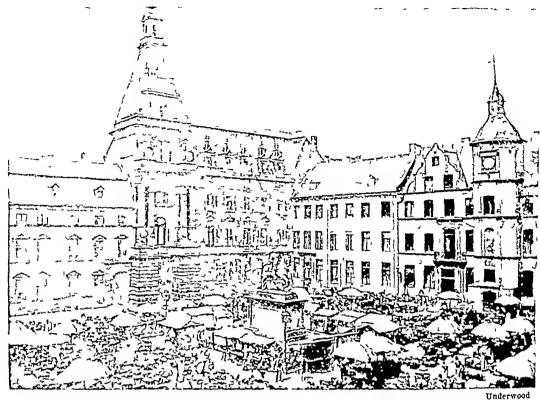
intent of 1,0 million tin in me greath reduced, while Sil sia also in Pru sia mitifiated, and the quarter. Over (600 000 miners were then engaged in the industry. In a lation to could here an insmous output of figuite or brown could it cheaper and less efficient fuel, and past found in heds varying from 3 to 40 feet is cut in large quantities.

The principal iron ore mines are in-Westpinha particularly the Rulin district certain area of the Ifarr and Thuringta and in Upper Sifesia. The results and amous minette mines in Lorrame have of course passed into



8 ELIZABETH'S CHURCH IN OLD BRESLAU
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bost 5 left high datase from 1456.

French possesson. The rock salt and ypota h immes of North Cermany are
extremely rich and used to give employ
ment to nearly 30,000 miners and other
warkers. The mining of precious metal
once very profitable is now an indu-try
of insignificant proportions though gold
and silver are still found in small
quantities in the Fieldt Gebirge the
Ore Mountains and the Harz. Lead
copper zinc and tin ores however are
still largely mined, and other minerals
found in remunerative quantities are
wolfram manigance bismuth cobalt
niked and antimon.



IN THE HEART OF OLD DUESSELDORF IN THE RHINE PROVINCE

The river port of Dusseldorf stands on the right bank of the Rhine at the influx of the Düsselbuch,

44 miles north west of Cologne by rail. It is an important centre of numerous industries, and almost
daily the market place, flanked by the sixteenth century Rathaus, in front of which rises the bronze
equestrian statue of Elector John William, teems with busy life vouching for local enterprise

The Lower Rhine district, the Weser valleys, the Giant Mountains and the Sudetic range are rich in mineral springs possessed of powerful curative properties, and the towns which have developed this natural advantage have prospered in consequence. Among the best known "baths" are Ems, Wiesbaden Homburg, Nauheim, Soden, Aix-la Chapelle and Pyrmont

Industry tends to follow its needed raw materials, or the cheapest trade routes by which these materials can be In Germany as in Great transported Britain physical facts have located many of the staple industries upon which national prosperity has been Thus the principal seats of the iron and steel industry are all in North Germany, where the necessary ores and fuel are found, and particularly in the Rhineland, Westphalia, Upper Silesia In the first two of these and Saxony are found the great blast furnaces and steel works which before the Great War gave to Germany the second place in the world as a producer of pig-iron and steel and the same may be said of many of the dependent industries. Indeed, the hub of industrial Germany is an area some fifty miles long by six to sixteen miles wide, extending in a south-easterly direction from north of Essen to Siegen. There, in close proximity to the coal measures, industry is carried on in the intensest form, population is densest and life most strenuous.

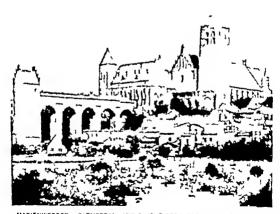
Most of the greater engineering works are located within or near that focal area, as at Essen, which in the past was also the principal centre for heavy armaments (as Berlin and Solingen were for small arms), Dusseldorf, Dortmund, Cologne, Duisburg, Hanover and Magdeburg, though they are also found as far afield as Breslau. The machine and cutlery industries are similarly identified with special localities. Thus textile machinery is largely produced at Chemnitz, in Saxony, agricultural

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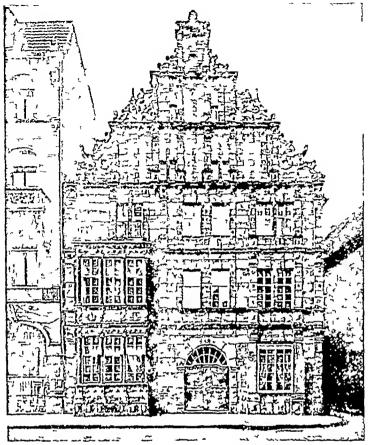
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North Germany beang day aled between according at 1 military, the utmost sainty of economic condition and social If our likewoon the actaman on t ar I il in la tra level west in particular if contr. it is seen marked. Broadly waker the west sands for the forms force with most men to a treated a factor out and hews outle was friester will theer than ! for 1 tats force of conservation extend in the tent is a talkays eral door to lay thores a the Il limberge a venidraun la him a senimbel a simulated at any 1 in filled a mill bill mark tiowns I La t Pru in et Mecklenburg are and fatter and and a



MARICHWERDER CATHEDRAL AND CASTLE SEEN FROM THE SOUTH WEST A girls 1 d.1 is send toward 1 through with spinor inhabit his, Marrier trief 1 land, on the first read it. Starming 2, 21 suffer north by it, a lovely secretal with the provertial hight of the firstness Order also forward if, we enter miliji. Sail by side ind dominating the town is defined by the firstness Order also forward if we enter miliji. Sail by side ind dominating the town is defined by the first of the first before the first the form of the first before the first the form of the first before the first the first of the first of the form to the first of th



RATCATCHER'S HOUSE AT HAMELN

In Hameln, an ancient town lying 25 miles south west of Hanover, is this Renaissance edifice of 1602, called the Rattenfängerhaus, the reputed home of the legendary rateatcher known to English readers through Browning's poem, "The Pied Piper of Hamelin"

civilization whose pace not even war and revolution have seemed to hasten

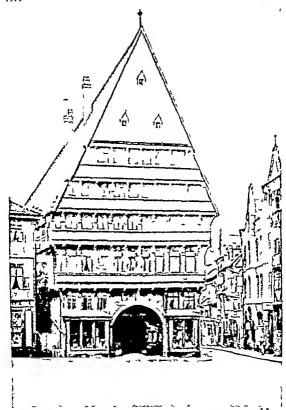
Like the people, the towns of North Germany present many contrasts though there is one creditable aspect in which all are alike, and that is the fine proportions and often stateliness of their public buildings Many of the old town halls are unique in their way, often revealing a dignity of form and wealth of carving worthy of the finest ecclesiastical monuments of medieval times But the modern public buildings of any German town, even of moderate size, are almost invariably planned and built for their special purposes, and in their erection no expense is spared in the endeavour to make them worthy examples of their kind, and so to encourage in private undividuals the cultivation of good taste and public-spirited enterprise in the same direction Even the railway stations are always well and solidly built, lavishly spacious, and not seldom decorated with quiet dignity where decoration is fitting, as in their elaborate façades

Coming to contrasts, however, the great differentiation is that which age has created In the east and north-east of the country there are delightfully picturesque archaic towns like Königsberg, Stralsund, Greifswald, Marienburg, and formerly Danzig, while the modern world represented by towns like Berlin and Leipzig

So, too, the west and centre have in Munster, Brunswick, Goslar, Fulda, Hildesheim and a host of other towns, small and large, superb memorials of a distant past, side by side with modern towns like Dusseldorf, Mülheim, Essen, Bochum and Dortmund, all impressive

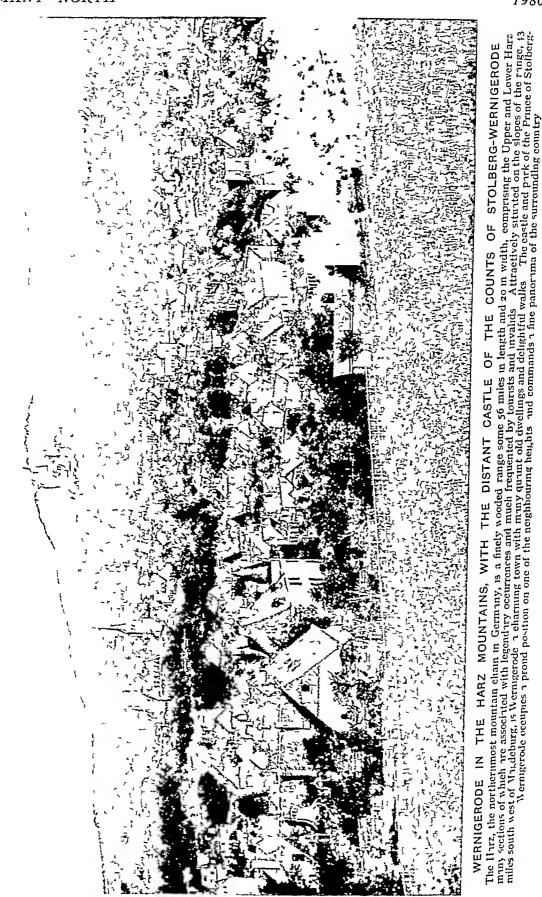
in their way, pulsing with life and energy, but lacking the subtle charm of "atmosphere" and historical finish. In effect these modern cities might be described as rather cosmopolitan or continental than German in appearance, one is pretty much like the other, and all have their counterparts in the larger and better-built towns of almost any country of North Europe Many of the old towns have renewed their youth, so that within the municipal jurisdiction an "Old Town" and a "New Town" exist side by side

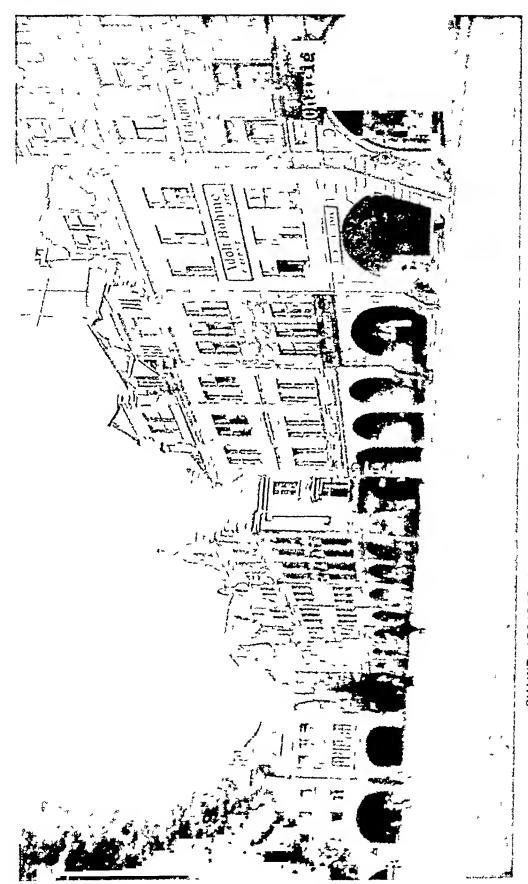
Several of the larger North German towns are separately described elsewhere in these pages, but there are others whose historical associations archaeological interest or commercial importance, or all together, give them a special claim to notice. Such a town is Hanover, capital of the old kingdom



GEM OF ARCHITECTURAL BEAUTY IN OLD HILDESHEIM

At my style model Hidesbesse subgred pressign of set and sill possesse beautiful spectures of models at and Germa Kraussanses arthitecture. The Knockenb has Amithans to restored guild howe on the betchers, built in 1509, ranks among the fasest timber buildings in Germany A holdy roof crown a the many toroged trenders and the language in richtly advorted in the care timber to the contract of the contract of the contract and the language in richtly advorted in the care timber to the contract of the contract and the language in richtly advorted in the care timber and the contract of the contract of the contract and the language in richtly advorted in the care timber and the contract of the

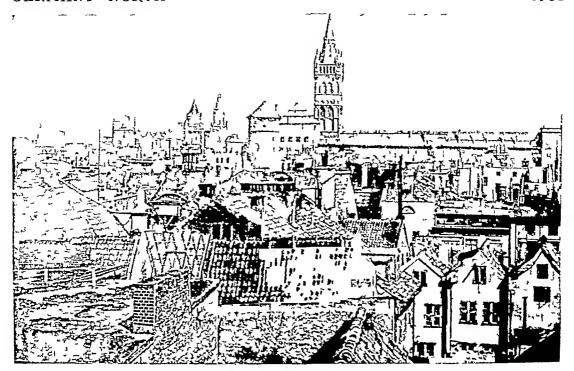




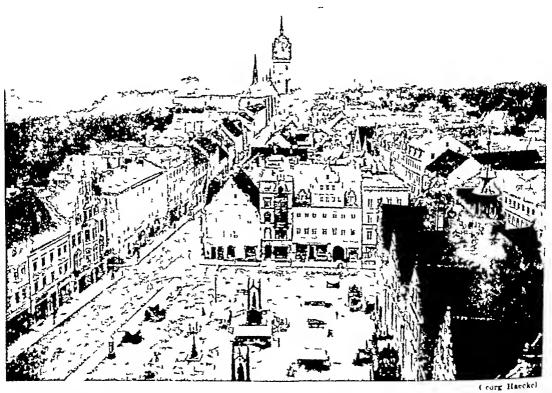
exceptibe I when mid the Boly release the Ketzbach mountains and the Riesen Gebirge. The town is an important centre ther a tindustrictly in, the cardin, and spinning of woof the manufacture of linea and cotton fabrics y vin artificial flowers, a state of a first winter surroundings metadling the Cavaherberg, from which there is a magnificent view, the and the sittly and the vill's affect when the cardinal cardinal states. HIRSCHBERG ARCADED MARKET PLACE

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LOOKING OVER THE ROOFS OF KOENIGSBERG TOWARDS THE CASTLE konigsberg stands on the Pregel about four miles and a half from its mouth on the Frisches Haff, and separated from Prussia by the Free State of Danzig and the Polish corridor. An important Biltic port and manufacturing centre, its output includes machinery, chemicals, toys and sugar. The chief buildings are the castle or palace, with a loft. Gothic tower, begun in the thirtcenth century



MARKET PLACE, WITTENBERG, AN INDUSTRIAL TOWN OF PRUSSIA Wittenberg was one of the eradles of the Reformation and is justly proud of its associations with the great reformers. Luther and Melanehthon, who were members of its famous university and whose bronze statues, under Gothic canopies are seen above in the market place. The lofts 289 foot tower in the background belongs to the Schlosskirche (castic church), erected in the fifteenth century.



DELICHTFUL ENTRANCE TO THE WARTBURG NEAR EISENACH

lish) bott troom pr kin To ringle, the Wartburgh one of the facts medieval reals, indicates in set trace. A risk allower as knowle here by the brief networks III and remained ten mode to indicate in the remained of the remained of the castle contains the great reference" table foot took, book or better port all and other memorials.

commercial importance with Hamburg (which is separately described elsewhere) they are like it in having retained political independence and a republican status through many centuries, so that the revolution of 1918 meant far less to them than to the rest of Germany Bremen, in particular, is rich in archaeological interest, its wonderful townhall, built at the beginning of the fifteenth century with the exception of the superb façade, being a veritable poem in stone Lübeck lives largely on the past, it is a quaint place, full of monuments of eld, and has preserved its individuality in a marked degree

Leipzig, the fourth town of North Germany in population, may be regarded as in some sort a second capital of Saxony It is also a particularly progressive and enterprising town, strongly imbued with the modern spirit, and architecturally is one of the handsomest in the whole country national importance rests on the fact of its being the seat of the Supreme Court of Judicature, of a popular university, and of the book publishing The inner quarters of the town are a tangle of narrow, crooked streets. but the modern portions have been planned and executed on bold and enlightened lines

Brunswick makes a strong appeal to the archaeologist as a typical piece of old Germany Happily, like Nuremberg, it has kept in check the hand of the moderniser, with the result that old and new blend without undue violence to the historical features of the town There are whole streets of picturesque half-timbered, high-gabled houses, the oak of their quaint façades The town-hall of the richly carved old town is an exquisite example of fourteenth century Gothic architecture, and the Clothworkers' Hall (Gewandhaus) and the building used by the Chamber Handicrafts are also memorials of distant centuries

The more interesting towns of Thuringia include Weimar, which is full of associations of Goethe and Schiller, Eisenach, situated on the edge of the beautiful Thuringian Forest, and overlooked by the Wartburg, where Luther enjoyed refuge against his enemies, Erfurt, where the seeds come from, and Jena, with its university and famous Zeiss scientific glass factory

Altogether it is safe to say that no part of the Continent offers more points of interest to the traveller, whether bent on pleasure or study, than are to be found in the towns and rural districts of North Germany

# GERMANY NORTH GEOGRAPHICAL SUMMARY

Natural Division The western section of the Great European Plain (Cf Poland, the middle section, and Russia, the eastern section) Bounded by the dune coast of the North Sea, the glaciated lakeland coast of the Baltic Sea, the block mountains of Central Europe—Harz, Ore Mountains, etc On the south, the German plain (largely Prussian) leads east and west to Russia and Belgium Across the plain the lower portions of the Elbe and Oder meander, missits in valleys which they did not carve

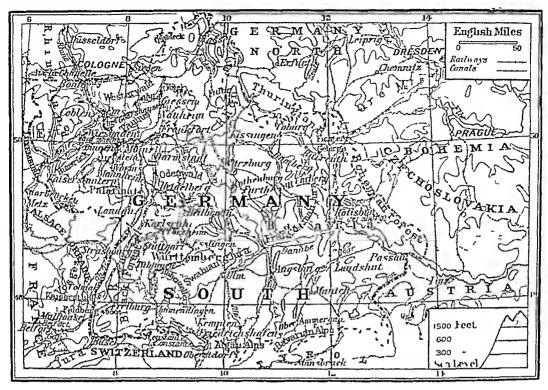
Climate and Vegetation The western end of the plain is West European in type, with relatively mild winters, the eastern end is continental, with cold winters, frozen rivers and harbours. The natural vegetation is forest, most of which has, however, been cleared

Products Coal and iron along the edge of the block mountains Sugar-beets, potatoes and rie on the plain Salt

potash and, consequently, chemicals Textiles and metal goods on the coal-fields Ships along the coast

Communications Antwerp—Berlin—Warsaw — Moscow, Hamburg—Berlin—Vienna—Constantinople are the two typical route lines along the plain to east and west, across the plain to the sea The Elbe and Oder lead to Hamburg and Stettin to sea traffic The canals from the Rhine east to the Vistula supplement the railway routes and connect the rivers

Outlook Great industrial developments in relation to the coal-fields have overshadowed the agricultural progress of the plain, which, in some respects, rivals that of Denmark and Northern Belgium. The future alone will show whether this geographical unit will cohere, and by its cohesion overcome the separatist influence of the distance from Cologne to Königs berg and with its cohesion dominate the Germanic element in Europe



THE HIGHLANDS OF SOUTHERN GERMANY

the extreme south-west In the latter quarter it has forced a passage through the Jura belt, which curves up from France north-eastward, narrowing and with steeper proclivities, as it touches the other mountain range of the Black Forest in the Basel country again, the valley of the Rhine on the western side of the South German block. now fairly well drained, was ever of a swampy nature, interposing a flat willow-grown tract of alluvium between the river-bed and the foothills of the Vosges Mountains On the German side -the east bank of the Rhine-the Black Forest stands up as a scarp, throwing out an advanced post of later volcanic action, the Kaiserstuhl, an eminence which may figure as the apex of a triangle of which the base is the line Colmar-Mulhouse

The eastern boundary of South Germany is very obviously a geographical one, running from the Fichtel Gebirge along the gentle ridge of the Bohemian Forest, the latter a range of such antiquity that erosion and denudation have blurred its contours, softening its former sharp outline against the sky

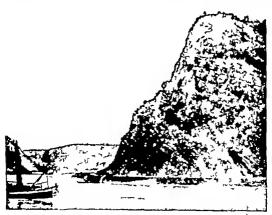
The three sub-divisions of South Germany have many features in common which distinguish them as a block northern Germany, the differences between the three being the consequence of local conditions climate, the difference between South distinctly North Germany 18 and marked It may seem strange at first that the average temperature of South Germany should be appreciably lower by a matter of four to six degrees than that of the northern part of the Empire This fact is due to the higher elevation of the block, the northern scarp of which rises to some 1,200 feet above sea-level from the northern plains The block then rises towards the Alps until its mean height is little less than that of Europe's highest plateau, central Spain

The gentle winds from the west and south-west take a half share of all the winds that blow over South Germany. They bring moisture with them. Much of this is held up by the way, but a sufficient share is left to the South German block. In addition to this, the snow-clad Alps send down their contribution. The southern German block

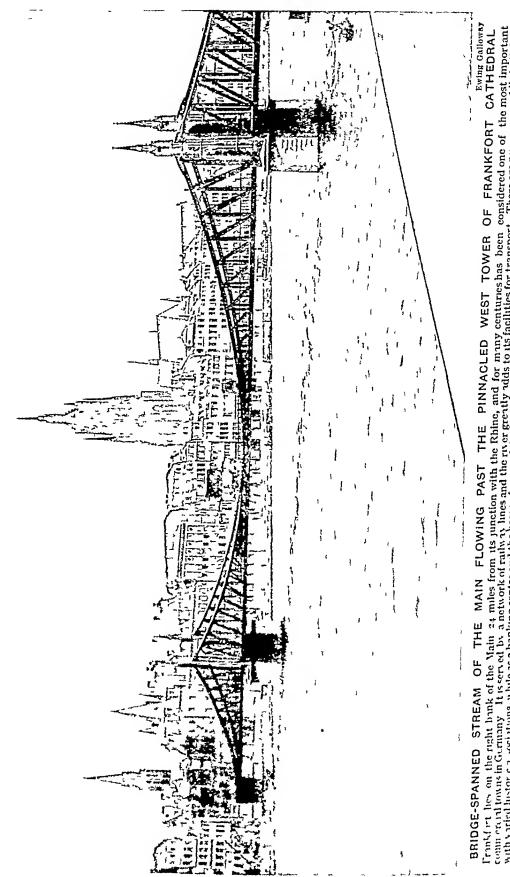
therefore rection on an impular tain fall all the year round beaviest in july when the ima temest in a tenth, on the spood 11. Owing to the confirmative of the Theix the rainfull it must nik distributed, the historical vallys have to be content with a tracker on the wind with plateaut times to further the tribination reach beauly on the tenth of South Germany may be counted among the warmest unnest poits upon it norther being plate.

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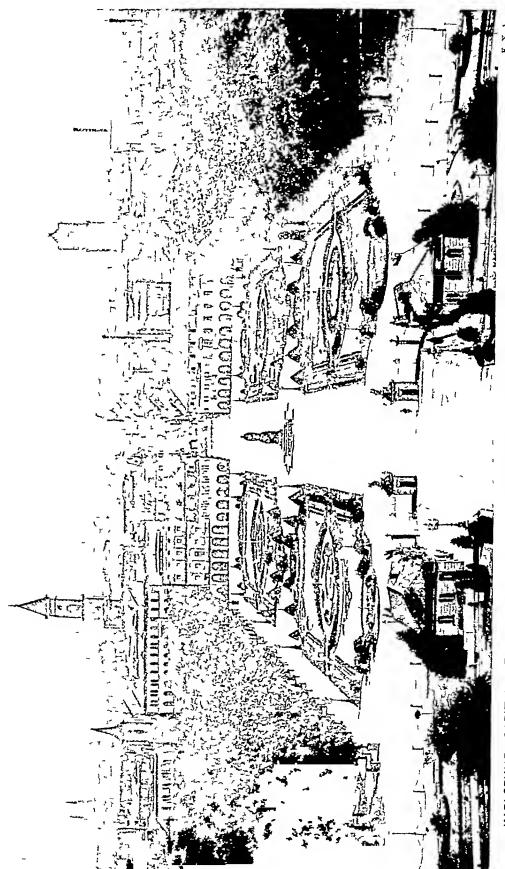


BEND OF THE RHINE AT THE IMPOSING LORELEI ROCK
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right bank of the Rhise term to. Gar hancen. He use of the treat-ship ercho they return and
their position is the automore and depend part of the river; the thiff is in said the bounded by
stress who force business it destinctions in the range of it the precipe foot



with virial loving in the crash of the same of the control of the carliest printing Trankfort has long been noted. Its fairs central the lotty tower, 310 feet lugh in the central background is that of the fourteenth century cities of the lotty tower, 310 feet lugh in the central background is that of the fourteenth century cities of S Bartholomen





The chief building at Karlsruhe is the palace, erected in the latter half of the eighteenth century in the form of a semicircle, and affording a mignificent and in In front of the prince is a handsome square, adorned with girdens and fountains, with a bronze statue of the Grand the central street of numerous thoroughfares which radiate in fan fashion from The town's industrial development dates from 1871, the principal manufactures including engines, furniture and plated ware L L PORTION THE PALACE SQUARE AND extensive view of the town and its environs. In front of the priace is a handsom Duke Fredrick from it in a southerly direction runs the Karl Friedrichstrasse, OF BADEN, OVERLOOKING CAPITAL KARLSRUHE,

nests of the tork. A elsewhere in our hemisphere parrow and crow are par manent vociferous lodgers.

The extensive wood and forest ar under careful supervision and produce a volume of timber which float down the rivers as rafts to be dealt with at such port a Mannheim on the khine and Ratisbon on the Danube. The rivers are full of the various pecies of fi h found in British home waters-the migrant salmon and the lever permanent kind bream perch and others. Occaionally a royal sturgeon makes its way to the upper waters of the Rhine and trout fla h in the mointain streams, which also harbour cravfi h and in the pends the pike keep fat carn from becoming unduly flibby

#### Rick Cracs from Stabborn Soil

But of all the primary occupations farming undoubtedly takes the fore most place in South Germany

South Germany s cluef trength lies in its arable di tricis. The nature of the urface sed is very varied and on the whole demand a good deal of effort before it yield its fruit. But this constant need for effort has bind a race of men competent and determined to over come difficulties. There are certain more favoured districts in the valley of the Upper Rhine the Lower Main the Bamberg basin and the Swabian uplands which are best dealt with under their respective sub-dissions.

On the whole all the cereals and crops characteristic of the hemisphere thrive well in South Germany About 5 per cent of the whole area is under wheat and its peculiarly German variant Barley for malting is in great demand, less so rye. Maize is grown as fodder as also are trefoil and lupin Hop-growing is another profit able branch of agriculture, and sufficiently extensive to satisfy the consider able demands of the largest beer con suming population in the world while leaving a good margin for export Potatoes and vegetables are grown in quantities sufficient only for local needs. but one sonce of pride is the fruit growing indu try. While in the sheltered valleys more delicate fruits aprecot and perch even the edibli chestnut are injuring the hardier trees, apple pear and cherry in their heavy laden rows along highways and byways bear testimony to effective cooperation between man and nature. The cherry tree is a particular favourite in these parts, not only for its fruit but on account of a pirit distilled therefrom and famous under the name of kirich.

#### forces Vineyard by the Rivers

I milly on the south and westerly dops—of the trias formations covered by volcame soil and state that absorbs the heat and radiates it by might rise tret above ter the terraced vineyards of the Rhine of Neckar and Main and their tributanes. From this wealth of sun baked state and tender green of vines grim ruins of feudal strongholds rise bere and there poering with sightless eyes over the broad winding rivers while clouds sail high over their roofsess hall and surchaine invades their dungeous

For its size South Germany cuts but a modest figure in the mining industry, and such mining as there is converge, on the richer districts of northerin Germany where the foothills drop down to the plains. On this fininge are the copper mines and lead deposits on the capper mines and lead deposits on the Lahn and Sieg rivers, the lead-bearing stratum again appearing in the Eifel Range on the north bank of the Moselle As compensation for this lack of mineral wealth. South Germany has the salt mines of the Neckar valley and the bealth-giving mineral waters of spassich as Raden-Balen.

#### Interdependent Industries

A natural outcome of the primary occupation of salt-initing is the second any one of chemical manufacture. Some of Germany's most important antiline days works are situated on the Main and in Bavaria. And again, as an accompaniment to the dyeworks, there are the extensive cotton mills of



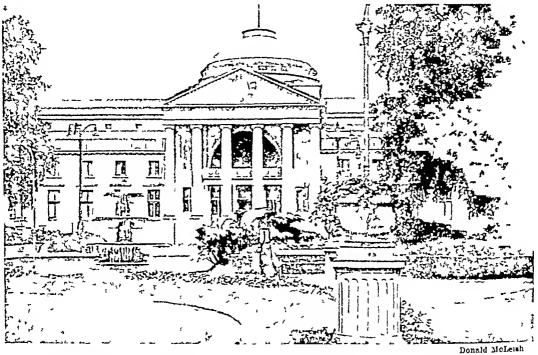
To distinguish it from the watering place of the same name near Vienna and from the spa in Switzerland, Baden, the town and pleasure resort of Germany, in Baden, is usually called Baden. An ancient town, the efficacy of its waters was known to the Romans, but its modern popularity as a sanatorium dates from the THE OOSBACH the nuncteenth century, and until 1872, when public gambling was suppressed it was noted for its gambling establishments. As a favourite hit is revalled in German's by Wiesbaden only, and enjoying a mild and salubrious elimate is a place of annual resort for thousands of people OF THE VALLEY BADEN, POPULAR WATERING-PLACE IN SOUTH, OF SURVEY, FROM THE AERIAL



BEAUTIFUL

Wurttemberg a considerable factor in Germany's textile production. In this instance the absence of coal, mined locally, is being compensated for by an increasing use of water power. There is yet another characteristic industry of South Germany, a by-product of its extensive forestry, toy-making. Nuremberg toys are known all over the world for the quality of their workmanship.

o the Danube and Ratisbon, and wanders up the valley of the Regen across the Bohemian Forest and onward over many difficulties to the Baltic Sea Then again the Rhine offers a roadway northward to the German plains, sending out an important connecting link with the Danube, along the Neckar's bank, past Karlsruhe and over the Swabian hills



GARDENS AND FACADE OF THE NEW KURHAUS AT WIESBADEN
Ranking as Germany's principal watering place, Wiesbaden is likewise celebrated for its lovely sur
roundings. It occupies the site of a Roman settlement and lies on the south west spurs of the Taunus
mountains, three miles from the Rhine. The spa has some thirty springs, the waters of which are
found to be beneficial for a great variety of ailments.

their ingenuity, but above all for their tender fancifulness recalling fairy tales

Nature intended Germany to be a corridor between East and West All roads to eastward radiate from Paris, in Southern Germany they break into a variety of branches, to take the northern line to the east From the Belfort Gap the roads begin to bifurcate The Rhine valley, where it all but joins the Danube, leads eastward under the shadow of the Alps to the gateway of Passau Before reaching this defile it crosses another ancient highway much in use when all roads led to Rome This highway comes up over the Brenner Pass, swings down via Munich

Another ancient highway leaves the Rhine at Mainz and leads up the valley of the Main into Bohemia, detaching branches to the Lahn at Giessen, to Hanover and Leipzig via Fulda between the Vogel and Rhon Mountains Still another road leads round the northwestern bastion of the South German block, a continuation of the connexion Paris-Metz down to the valley of the Moselle and the Rhine

Punctuating these lines of communication are a number of ancient distributing centres. Nuremberg, Munich, Augsburg, Ratisbon, Karlsruhe, Mainz, Frankfort and many lesser ones. These names have a more German a more familiar.



GOTHIC RANCTUARY OF STUTTGART FRANCO BY A LOYELY LAKE

FOR Inches I lang at 11 (1 mm and pall cents butter, in N trackers

report to the more in palary tomber the alphil benders to direct

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OLD BUILDINGS ON THE REGNITZ IN MEDIEVAL NUREMBURG

1 the rest part of Nemberg, is pertent indirectly and commercial centre. I South Germany,
whi to be inverpressed for the abundance and beauty of it. Ramiseance monuments, the siland of
Schött is formed by furneding arms of the Regnitz. At its section. I trently souther a portion of
the did soprial prime section of the placed thram and commend an itractic fee

sound to us than many equally or even better known North German names, such as Berlin, Leipzig, Dresden names which are, in fact, of Slavonic origin Of all these towns Nuremberg is perhaps the best known to those who are interested in German life and conditions Ancient highways of trade from Italy over the Brenner Pass, from the Rhine eastward, meet at Nuremberg, thence strike out again to northward for the timber of the Harz Mountains, to eastward into the Bohemian Forest. and on toward the Moldau, Elbe and the Oder to the Baltic The course of these roads was directed by the river Main from the Rhine to the Regnitz. which flows past Nuremberg and has within the memory of man been connected with the Danube at Kehlheim by means of the Ludwig Canal

## Munich and Old Nuremberg

Munich, Munchen, also owes its origin to the facilities given by nature, though in a lesser degree—to a primeval line of communication, the Isar, which in its upper reaches connects up with the Inn at Innsbruck, and thus lies on the Brenner Pass route

Nuremberg and Munich offer marked differences from each other, due to situation and consequent development Whereas Nuremberg lies in a wide and fertile valley with natural exits that offer no great obstacles, Munich has to contend with a system of turbulent mountain-streams released from several hill-locked lakes To-day it is a large you may gauge its size from the railway line as it sweeps down from the north-west in a bold semicircle. It is a city that preserves carefully its ancient buildings and orders new constructions in the same spirit as that which informed the indomitable age which created it. a ring of factories surrounding Nuremberg tells of its industrial importance

### Irankfort's Debt to the North

Minich is of later date than Nuremberg, and was ever of less importance as a centre for commerce and industry,

its area of distribution is more limited, its natural approaches more difficult. It is probably due to the beauty of the lake scenery in its neighbourhood, to the glorious air that comes down from lorest-clad mountains, that Munich was chosen as Bavaria's capital. The taste of a line of cultured rulers and of an art-loving people have made of München a city beautiful.

Among the other South German towns mentioned in the group above. Frankfort is probably best known to English people after Nuremberg and Munich Frankfort started with a great natural advantage, as its name implies, for it was here that the Franks are said to have found the first ford across the river Main, some miles from its confluence with the Rhine Despite the fact that Frankfort, by means of the rivers Nidda and Kinzig, opened out the way to northern Germany across the Taunus and Spessart heights, this city held no very prominent position in the life of Germany until comparatively recent times, until, in fact, the growing weight of Germany made itself felt in the South

## Metamorphosis of Country Towns

With the definite shifting of commercial and industrial values caused by the annexation to a new German Empire of Alsace and Lorraine, Frankfort's importance increased by leaps and bounds, and soon the banks of the Main became a network of railways and canals, joining up this city with Mayence (Mainz), its natural outlet on the Rhine, the highway to the sea

The industrial and commercial development of the river area Rhine-Main-Neckar is responsible for the change of Karlsruhe and Stuttgart from pleasant, quiet little residential communities into business centres of importance Karlsruhe, as the name implies, originally the peaceful retreat of an Archduke Charles in the early nineteenth century, connects the Rhinewith the Danube, via Stuttgart and Ulm, over the Swabi in Alps. Stuttgut



RICHLY ADDRNED GOTHIC RATHAUS OF MODERN MUNICH

Manich, the chief city of Berrata, is considered one of the best both put is in Europe. It is

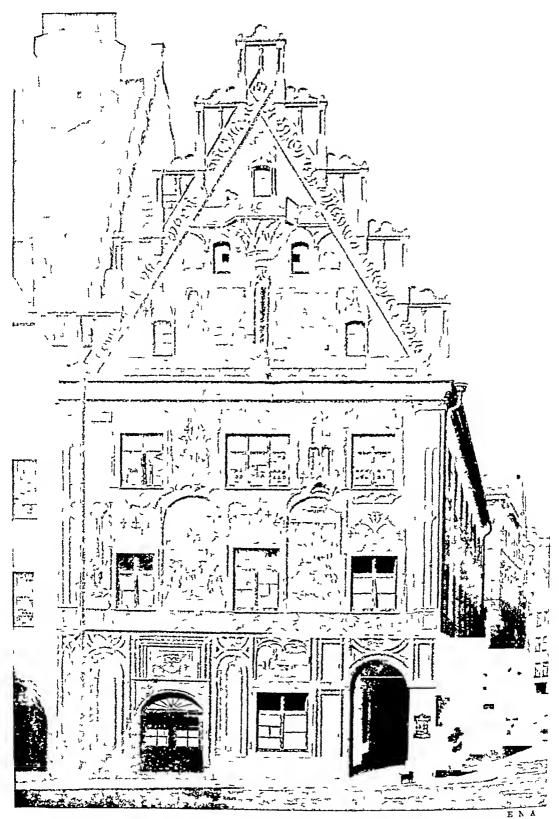
seventially moderneity broads the grise of the one antibody sails of the old row nar will vitable a

A distinctor feature of the city is the new ton. In Juneau on the porth side of the Maryenylais,

handeener pide recited in 19/1 100 and is always beautiful the the columns.

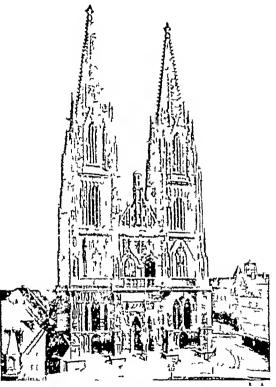
agam an ancient home of lords margraves dukes and kings of Wintermberg, has enhanced its position as centre of the charming and insitial Neckar Valley by the sill and enterprise which made of this pacturesque waterway a live artery in the South German system.

The section of South Germany comprised within the system of the upper Danubo is roughly triangular in shape. The southern side is taken up by the Swabian and Bavarian plateau at the foot of the Alpa the northern border is composed of Black Forest Swabian and Trancoman Jura. These ranges seem to swall outwards from south west to east from the granite block of the Feldberg 4 900 feet the highest point of the Black Forest. The base of the trangle is formed by the Boheman Forest its apex is in the Basel bend of the Rhine which at this point turns in a northerly direction to mark the boundary of South Germany as far as the begits of the Rhine Palatimite.



OLD TOWN-HALL OF ULM WITH ITS FAMOUS FRESCOED FACADE

Among the principal secular buildings in Ulm, an old fortified town of Wurttemberg, lying on the left
bink of the Danube opposite New Ulm in Bavaria on the right bank, the town hall occupies a
prominent place Erected at the beginning of the sixteenth century, its style depicts the transition
from Late Gothic to Renaissance, and its façade is adorned with old frescoes, retouched in 1905



WEST FRONT OF THE FINE OLD CATHEORAL AT RATISBON

Rath-loon lands, the junctive of the D ube and the Reyen, 85 miles north exit of Musach. It cathedrals considered the chief Gothic edifiers in Bavaria Largey's a batterial senting vincture but with chaptes of still serize date it is magnificently interesting building and contains many fines out of art, while the twin tower of requisits workmashly were completed in the nucleonic results.



eharming points of view and many of them are easy to climb, thus providing a favourite holiday ground for numerous enterprising tourists. The Algiu traverse the south-western corner of Bavaria and contain many lofty peaks, the highest, known as the Mädelegabel has in altitude of 8,681 feet. The distraction renowned for its execilent butter milk and cheese, and many delightful scenes are witnessed such as the above at Oberstdorf, a favourite summer resort THE BAVARIAN HIGHLANDS In the highlands on the southern borders of Bavaria are several peaks between 4,000 and 8,000 feet in height, the loftiest rising to 9,710 feet AMONG them are easy to climb, the HHE PROVIDE THAT

I ren the I dillerg group a rumber of strams radiate contwants as influtance to the Blanc and Danule. A jeculiar phenomeno worthy of not. I this from the fittle town of Immediates in air the source of the Danule. A sulterranean channel leads to the tiver. Vall will be fown into the lake at Contiance and thus makes of the upper Danule. A influtary of the Blance The Danule a influtary of the Blance The Danule and the Blance of the property of the Blance of the Blanc

The lilick Ferryt also has its lakes two anoems wikanic craires were leep and still referring the south relies? the first rice that grow in seriod, colorile ranks far up the moemtain ides to the ranks far up the moemtain ides to the trule regions where even such has higgineth as it iris find in ufficient in consagement. The criticals file granule heights of the lilick I ment provides a generous seed in the sheltered valles where below the role of consigns are farets of out, and beech and callidate the first of out, and beech and callidate the first of the said vines and consigns.

#### l'Interpet Ci le of Tilige

Let more difficult to the southern Leiller-strewn plateau. But here so account of the heaviest rainfall in South Germany grazing is gov Landlarge berd of cattle are tarsed. There are however in this country some favoured islets where man's primary occupation of arable farming gives rich returns for his efforts. The alluvial soil round the volcanic mass of the Karserstuhl and the valleys that wind now and into the fixest are extremely fertile. Then again in the extreme eastern angle of the country sheltered by the Bohemian Forest hesa favoured strip of land for cereal of all kinds. Hops, too thrive well on both banks of the Danube about Ratishon

A quaint local occupation connected with forestry is peculiar to the valleys of the Black. Forest in its southern extremity. Here the filliddes below the belt of condiers are covered with oak scrub. This undergrowth is cut every 15 years or so, the bark is stripped off for the tameries, and the smaller Franches are tacked and burnt on the pot. In the following syst the ground thins emisled it tilled for com. By the second year after the luming the tree tumps apparently non-the worse for fining have sent out foot too trone to permit of filling for another (5 years. The somewhat two hand really methelicentral trong havith and healt level method with the health over almost every citck of less that it my claims to half from the filling larger.

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from the wealth tance of the Black Frest Itam the Ikak mles of the Switz nant Leanconian lura a nomber I tream and my re-tace down a reads. I have become to the fair 6 Li wit red by the Neckar and the Main. The valleys of these water can en in their upper reaches at nation totagon flanked in places by has nekl jernjeres locked with I gest and crowned with ruined ca the while timbered houses, hincle rouled neen out from among vinevants and school in the beltered places. The salles water out and it its flow at a more even pace through broad land of fertile alluvium

#### Prosperous 1.1 of the Necker

Of all the rivers of Germany with exception of the Rhine the Neckar is the most famous in legend and song and the country through which it flows is considered the lark of Germans It is indeed a lovely valley believed unny exch in soil which in turn nehly rewards the efforts man makes in culti vating it and leaving to man after his days work, time to recreate lumself to wonder then that this teckar valley is the most densely populated part of South Germany Here in the Veckar country are salt mines to aid chemical factories health-giving springs at Heil broon two universities-Tubingen and Heidelberg-and manufacturing centres at Fe lingen and Stuttgart the capital of Warttemberg

The Main river, starting out from the austere heights of the Fichtel Gebirge, now learns to smile as it enters the plains the basin of Bamberg, the market garden of South Germany On its way it picks up the Regnitz, and establishes a water connexion with the Danube past Nuremberg, and through a depression in the Franconian Jura At Bamberg the river becomes navigable and flows on between vine-clad terraces through Wurzburg and to Frankfort, where it enters the field of commerce

Quaint old German towns cluster about these valleys Some slumber in historic repose like that gem of medieval architecture, Rothenburg ob der Tauber, others have upheld and increased their importance. Nuremberg on the ancient trade route from Italy to the north stands with its keep and ancient walls, its gabled houses and wrought-iron work, much as in the days when Hans Sachs cobbled and sang to his work.

Wurttemberg, with the ragged strip of Hohenzollern territory entering into its southern border, is obviously the result of military operations by lords of Wurttemberg supporting Ghibeline or Hapsburg emperors against obstreperous Guelphs in Bavaria, and the political borders of Baden show as little regard for geographical features

as do those of Wurttenberg Baden as a political entity is just a long strip of extemely fertile country on the east bank of the Rhine, with patches of territory acquired at either end of this strip by a succession of margraves and dukes. The state of Baden grew out of small beginnings and around a spot famous the world over, Baden-Baden—or, more correctly, Baden in Baden. The name suggests its origin, for here are the healing waters known to the Romans, whose town of Aurelia rests under the foundations of the present watering-place.

The third, and last, sub-division of South Germany comprises the uplands of Hesse and the Rhine province Ridges of silurian and granite rise out of the Lorraine plateau and curve away towards the north-east The Rhine forces a passage through this mass, its broad valley intensely fertile, the hillsides terraced vineyards. There are many familiar names, such as Nierstein, Rüdesheim and ancient cities like Worms and Speyer Beyond the Rhine Taunus and Westerwald, separating Main from Lahn and Lahn from Sieg, extend towards the north-east where their symmetry was destroyed by volcanic eruptions culminating in the desolate Rhon Mountains

## GERMANY SOUTH GEOGRAPHICAL SUMMARY

Natural Divisions A border zone between the North German plain and the Alps, an undulating passage-way between France and the Danubian lands Mainly composed of ancient pre-Alpine block mountains of Central Europe worn down and eroded to smooth yet massive outlines In the south and southeast the valley of the Upper Danube, in the north the valleys of the Main and Neckar, in the west the eastern half of the rift valley of the Middle Rhine

of the rift valley of the Middle Rhine Climate and Vegetation Rainy and cold on the heights the climate is, on the whole, cooler than that of the plains to the north, yet the valleys and sunny slopes receive the warmth of their southerly latitudes (Contrast the Tyrol) Naturally forested (cf Black Forest, Thuringian Forest as place names), with the open summer meadows of the uplands and the cultivated valley floors

Products Forest products, timber and toys Wine, wheat (i.e., spelt, an impure wheat mixture) maize, tobacco, hops Beer (Munchner lager) Cottons in small quantities Pigs and pigmeat

Communications As a passage-way cross routes from the Rhine to the Danube (eg, the Rhine-Danube Ludwig Canal from Bamberg on the Main), cross routes from the German plains to the Italian plains which have determined the growth of Frankfort, etc

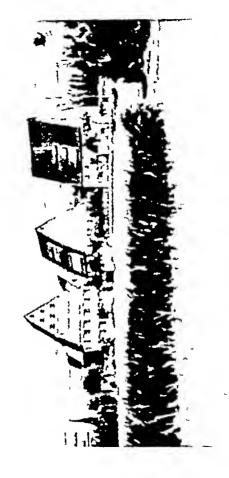
Outlook Forced by their environment to depend upon the land and its products, situated in a transition zone, containing zones of difficulty where life is severe and zones of effort where men are dour, lacking coal and iron and their consequent industrialism, Germany South should progress more successfully after the pattern of the Swiss than of the Germans of the northern plains



SOUTH GERMAN To see the Markusturm of Pothenburg Banana remnant of the earliest town-walls is almost to revisit the Middle light



securive of the Rhine gorge with its vinc-clad, castle-crowned slopes between In this section lies of Goarshausen, watched over by the romantic Kats (asth Param Grants The localy





Grassics Rising proudly on a hill above the Kelour the stately university will its central root for to error a handment for many not



GREECE The Meteora Menest rice in the als were found a high on the nument of pillar like rocks in the turbulent fourt enth century



less relics an left of ancient Sparta, the famous city of Laconia that once ruled the Peloponiusse, the southern portion of its old precincts is occupied by the present Sparta, of entirely modern origin





GREENLAND Unanal Settlement commands a view of the food, of indescribable grandeur and harmony of colour, sugged cliffs rise sheer from the ocean, and glistening icebengs float on the ice-cold Arctic waters

### GL ASGOW

## River-Made Centre of Scotland's Trade

### by Nei Munio

Author to The Chill "

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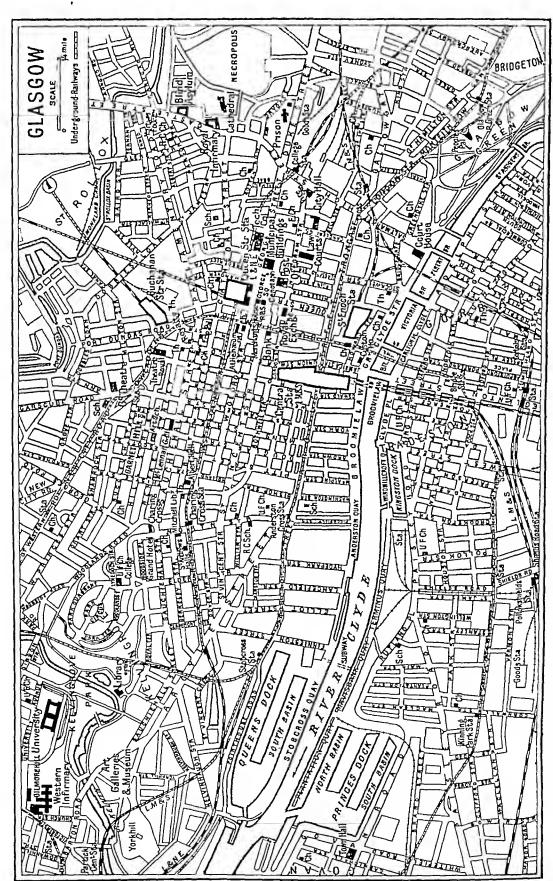
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#### Assert and Salik of Commerce

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In it offer becomes parts on the north ad of the river the city stand then what were swamps their bank but climbs very gradually inward upon low lying hillick so that on a clear day -which can but intermittently be looked for work may from the lugher relikntial quarters see other and gr of r hill engirdling. On the south of the more the city stretches toward



H H H ₽ AND QUAYS DOCKS AND STATIONS WITH THE STREETS CHIEF GLASGOW, ITS NNER

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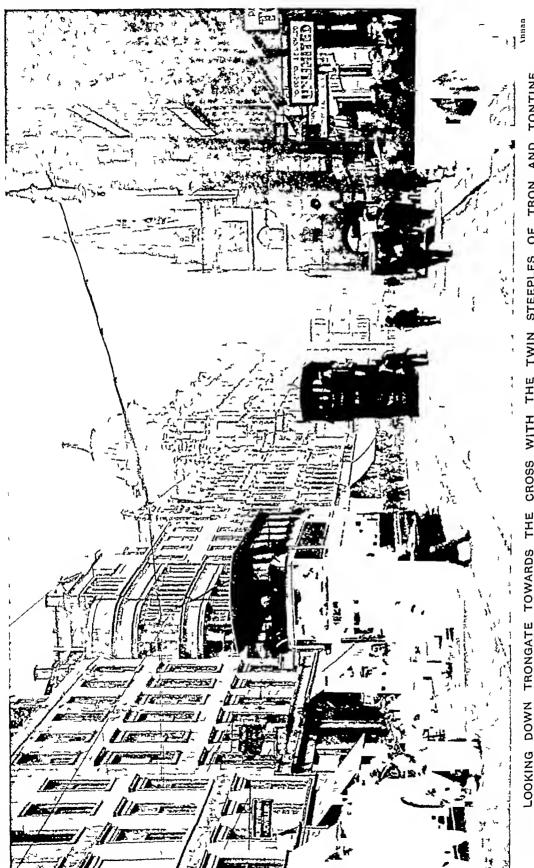
61 ANDREWS HALLS THE LARGEST PUBLIC HALL IN GLASOOW

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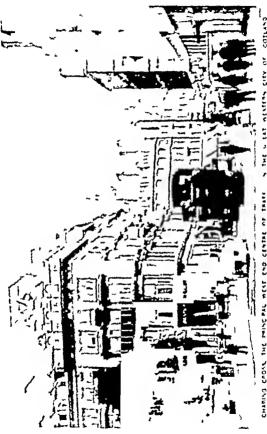
exceptions are had with cubes of store. It is doubtful if in any other city. In the world like of citi. It toller, trainear has so areo anily tal in posession of the central theroughfairs. The congration has a train service of world rulis, cheap fares and far-extending reach which is run with the utmost enterprise and with great profit to the civic treasury but in the central butines and hopping area the cars create consistent due to the fact that the river divides the city into two parts north and south. A jedious preservation of the fir wharfage limits by the shipping interests has

surfle officential warnered Arryle Street has at its eaten extremity som imposin wardsouse and along most of its first a frontage of thriving slope. Trol ally more money changes hands there than in any other half-dozen of its rival. but it it as a rule to Buchanan Street and Sauchichall Street that seek is of the reclerche focks.

Bochanan Street at its lower end, i the resort of the city's wealthiest shoppers and its seriosanct from tramear introdom but at its upper end degenerates rapidly in dignity till it raches a tation of the London



Trongate is an extension of Argyle Street terminating at the Cross where High Street,



Midland and Scottish Railway less imposing than the Central which is one of the finest stations in Europe

## Shopping Centre of the North Side

Parallel with Buchanan Street, running south and north, is Union Street, which changes its name midway in its course and becomes Renfield Street, most crowded of car routes To the right and left of it open up streets dedicated to shops and business premises, banks, lawyers' chambers and insurance offices, which latter, in recent years, have been changed from dingy old low-browed blocks into soaring and handsome edifices The street to which an inquisitive stranger seeking Glasgow's more imposing shops may trouble to go is Sauchiehall Street, briskly animate in the afternoon with womenfolk attracted by splendid warehouses in which the art of window display is seen at its best name, which always impresses the stranger, is derived from "sauch"—the Scots for the willow-tree, Sauchiehall Street is a survival of more pastoral days in Glasgow

All the places named are on the north side of the river, the south side, cut off entirely by the river from any railway terminus—and unfortunately so, as is now in part realized—is more of a factory and working-class residential area, though on its outskirts lie some of the most charming of gardened villa areas The extreme north and east of the city by their smoke-stacks proclaim afar their charac-To reach the cathedral one must distinctly "East-Endish" quarters, probably the High Street, old as the Middle Ages, but wholly transformed and modernised

## Nucleus of Old Glasgow

An erection of the twelfth century, the cathedral stands on the site of a much older edifice dedicated to S Mungo, the city's patron saint. Its bells once rang across meads and gardens, and wild birds sang on the

banks of the little Molendiner, now degraded to the status of a subterranean drain-pipe. The exterior of the cathedral may disappoint, but—except for some amazingly bad painted Munich glass—the interior is impressive enough, and the crypt is probably the best in Britain. Round the cathedral, and between it and the Clyde, grew old Glasgow, behind it on a knoll rises the Necropolis, an age-old cemetery

The Green in the east end, Kelvingrove in the west and the Queen's Park on the south side are the city's oldest "lungs" or open spaces, each in its own way preserves natural features to remind the citizen of what rural aspects and surroundings communal growth and industrial prosperity have bereft him It is in Kelvingrove that Glasgow's great and always successful International Exhibitions Reflected in the have been situated Kelvin river, tributary to the Clyde, are the walls of Glasgow University which until 1870 was in the High Here, too, are the city's imposing and extensive Art Galleries

## Parks Many Miles Away

But there are many other parks and playgrounds round the city—Rouken Glen and Cathkin Braes for instance, unsophisticated and altogether charming, and the city even owns truly Highland parks on Loch Lomond and Loch Goil, twenty to thirty miles away among hilly solitudes

Parks, galleries, libraries, police, tramways, baths, lighting and cleansing departments, museums, halls and even some older city churches—they are all controlled by the city corporation, which also brings the most perfect and mexhaustible of water supplies from Katrine, thirty miles Loch among mountains glorified by the genius of Walter Scott Seeking the administrative centre of all these communal "utilities" one must go to George Square, in the city's modern centre, where are situated the municipal The area they cover, the buildings

2019 GLASGOW



CORDON STREET SHOWING THE CENTRAL STATION ON THE RIGHT



VISTA OF BAUCHIEHALL STREET THE REDENT STREET OF OLASOOW
ReviceClasers freel medicalment to lightless from south a south of six it went Turn general and south of it is britted the photograph more return such at the six in the photograph more return such it have the which traverse direct line from linehaus Street i Charing (in soil theory to the licet Led crevent and in fall held planemores has deep and a unbourse.

GLASGOW 2020

solid majesty of their outer walls, are in keeping with the great importance of their purpose as the heart of the civic government, controlled by a lord provost and seventy-six magistrates and town councillors, including two representatives of the city's ancient trades and guilds

## Spring Flowers in George Square

George Square itself, at the gates of the London and North-Eastern terminus, is the only considerable open space in the city proper—a "place," in spring and summer time when the parterred flowers are out, of some attractiveness, surrounded by several of the handsomest buildings in the city, including the Post Office and the Merchants' House, and just a little too opulently adorned by statuary

In its centre rises a lofty column to Sir Walter Scott, and there are statues to Queen Victoria, Prince Albert, Burns, Peel, Gladstone, Thomas Camp bell, David Livingstone and others, with a cenotaph to the memory of the city's fallen in the Great War

## The Ubiquitous Tenement

As in most industrial cities, examples of real architectural distinction have to be looked for, and refined and elegant work in ecclesiastical and business buildings of the nineteenth century are fairly numerous But for the stranger the most surprising architectural feature is likely to be found in that all-prevalent and peculiarly Scottish institution, the residential "land" or tenement vast majority of Glasgow's people live in flats or parts of flats, using a common stair to reach their domiciles The principle has its analogue in France, but tenemental blocks in Glasgow have no presiding concierge at the entrance At their slummiest they are divided into "one-room houses," the city's most sorded social problem, at their best the flats are commodious and comfortable. equipped with every modern convenience and in great favour with the less opulent of the professional classes

To the visitor from brick-built and stucco cities elsewhere, the solid masonry with which even the humblest homes in Glasgow are built is striking

From the plateau of Gilmorehill, on which the university stands above the pools and groves of the river Kelvin, the city presents itself as a great expanse of uniformly-slated grey buildings throwing up here and there innumerable towers and steeples and, more distantly, some of the tallest factory chimneys in Britain. The university itself—though not of course in the present buildings—was established in 1451 by a bull secured from Pope Nicholas II through the influence of Bishop Turnbull, and is the second oldest of the four Scottish universities. St. Andrews being the first

## Scotia's Second Oldest University

The number of students, of recent times, has increased enormously, and curiously enough, most rapidly during a prolonged period of national unem ployment, when the youth of Scotland seeing no avenues for their energy elsewhere, ardently wrought for "bursaries" or scholarships to carry them into the learned professions

About 5,000 men and women take the arts, science, medical, legal and divinity They are not resident in the college, which, unlike its predecessor in the High Street, has no intramural accommodation for them, they live in their own homes, in hostels or in Among them may be found, lodgings in the same class-rooms with the sons of merchant princes, students of many Eastern races and "lads o' parts" from every locality of the Western Highlands and the Hebrides, where the ambition of many humble crofters is to liave at least one son in a learned profession was a time when the aristocracy of Scotland did not disdain to send their sons to Scottisli universities, indeed do they send them there now

Though the classics—the "human ities"—have a high place in the Glasgow University, its scientific side has greatly developed, and of nineteen Chairs

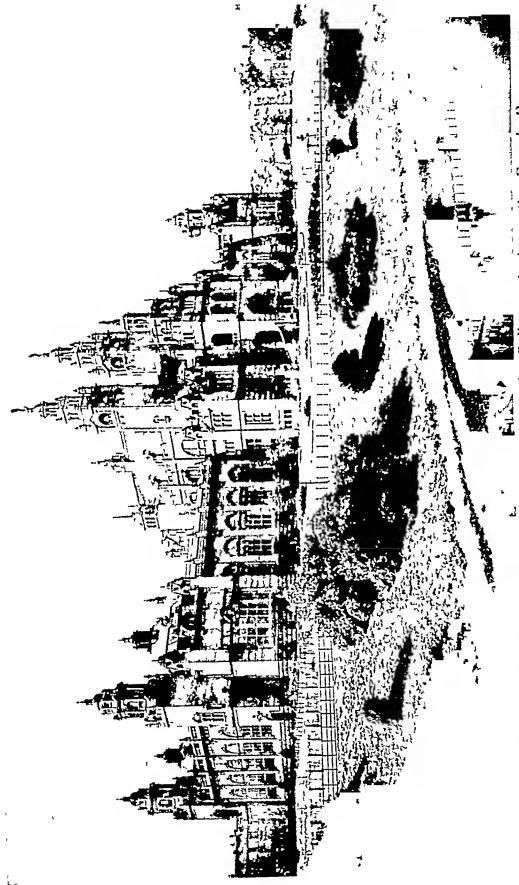


In front of the magnificent Corinthian building f the Royal Exchange slands the equesteran monument to the Duke of Wellington

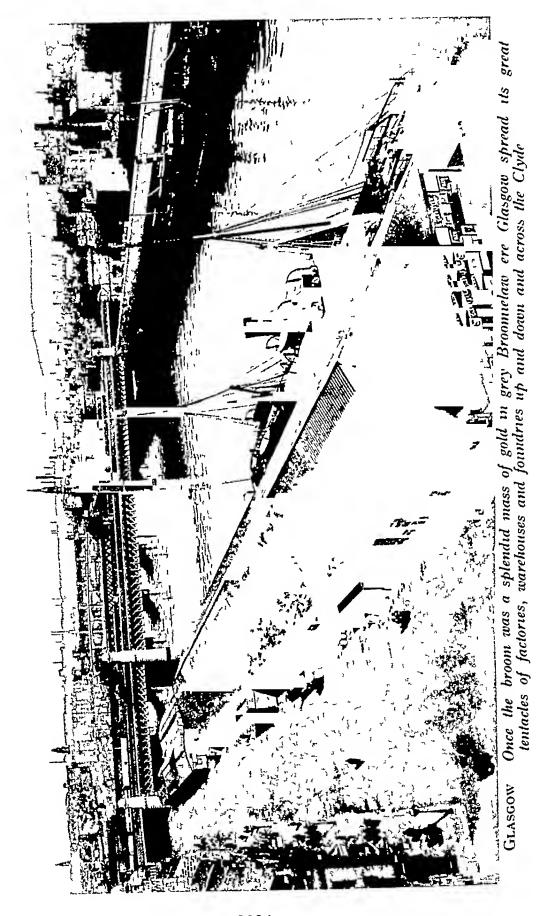


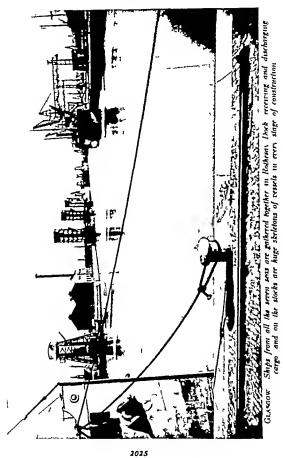
CLAMON North Street façade of the fine Milchell I ibrary it is the second largest library in Scotland and contains the Jeffery Library m in page 2021 202 Japan 2021

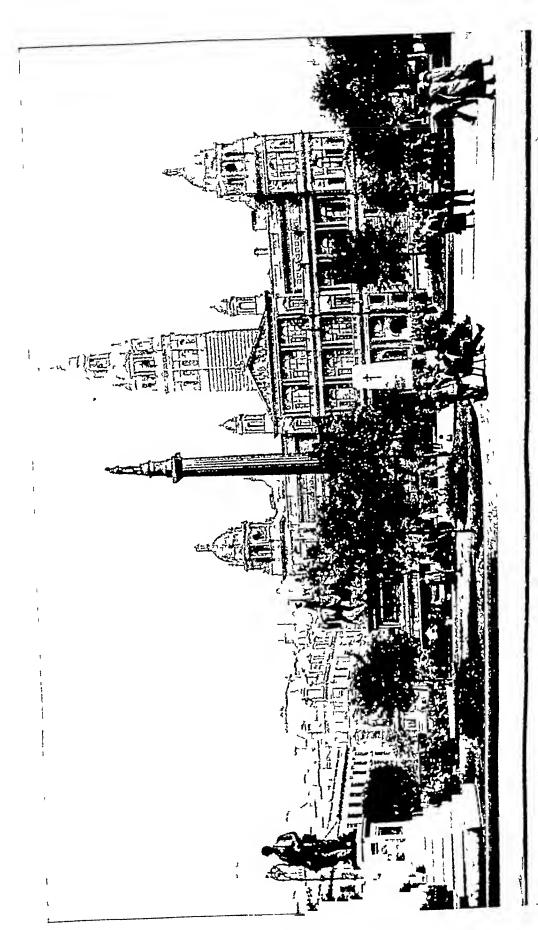
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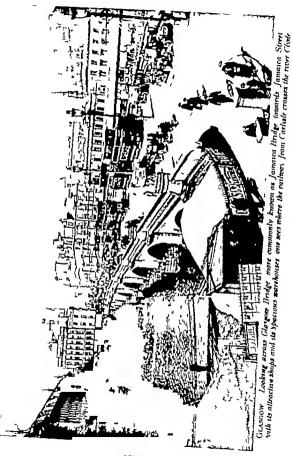
LASGOW The red sandstone building of the Corporation Art Galleries, built in the style, with the twin central towers standing out in bold relief, forms an impressive and GLASGOW

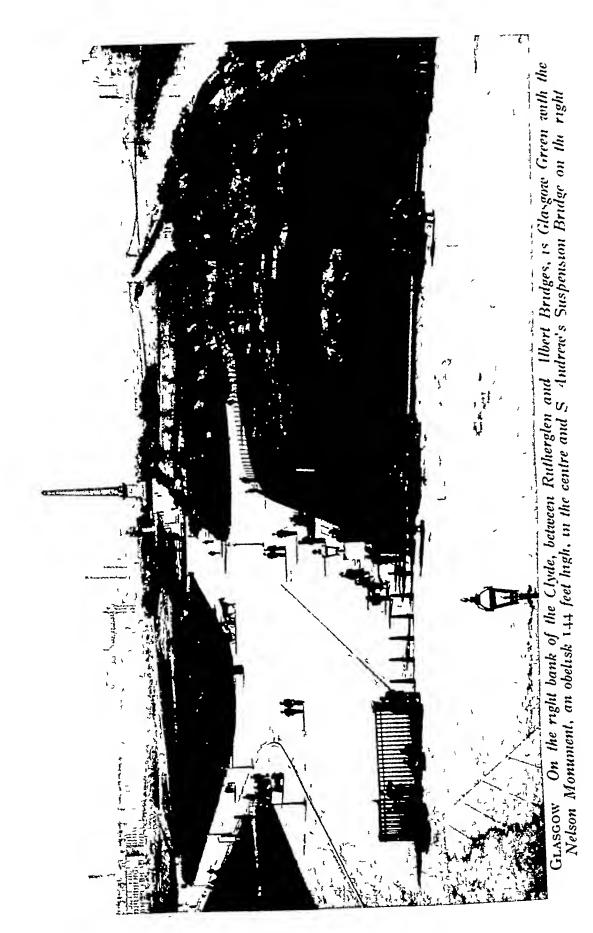






Inham Renaissance style, and the fluted Doric column of the Scott Monument soars above the War Memorial The Municipal Buildings are in the





founded in second wears to public pint I merchant lupowners and manufacturers nine are on the medical ale four in technical science an I several in motern languages

A part of the building on Cilm rebill is occur of he the masoum found d he William Bunter VID one of the meet di tinemi led alumni an l'gradustes f the university and continuing lie refused and longitude deplets can punting antienic tyret tration recognical and architect heal relies many of the latt r being rr tou find " from the 1 man Wall which un between the Chil and I oth

Howl i mil con i the Chiem an I W tof Southin | Tylin altolke claimin t 1 the 1 t technical while the distriction of motion is us the It was creatly bed in to for and a current extinue and landsome primes in Garth Street

#### Chol e 4 Iretion | Old M ters

On the appeale the claim from the unit title are the city s let Calleries and Museum on a gr at and highly origin I and what the the in the sumt file I malek not since til of architectus. Simple its combine l with elemee marks the intense di and to the Line Arts Industrial Art and Natural Ilitors the picture wetton includes an exceptionally valuable r presentation of the old Dutch and Flemt h ma ters and of the most notable painters of the modern Briti It an I Continental schools

Next to London's National Callers collection that of Clasgow at Kelvin grove is probably the most representative in the kinedom. Of its several Rem. brandts the " Man In Armour far the best-more virile in its spirit and In composition colour and atmosphere carried much farther than Rembrandt a

Tallas Athene at the Hermitage Petrograd which looks like a pre infinity sketch for the Clasgow cansus. Van der Gorss "S Victor and Donor Adulteress Before Christ (a superli work whether by Corgione to whom

It is attributed on its a pupil) and Whiters portrait of Carlol with choice examit a of Corot Kou year Trovon and Montic III an not likely to be overlooked by the discerning

#### A I's for the Anithe Ben

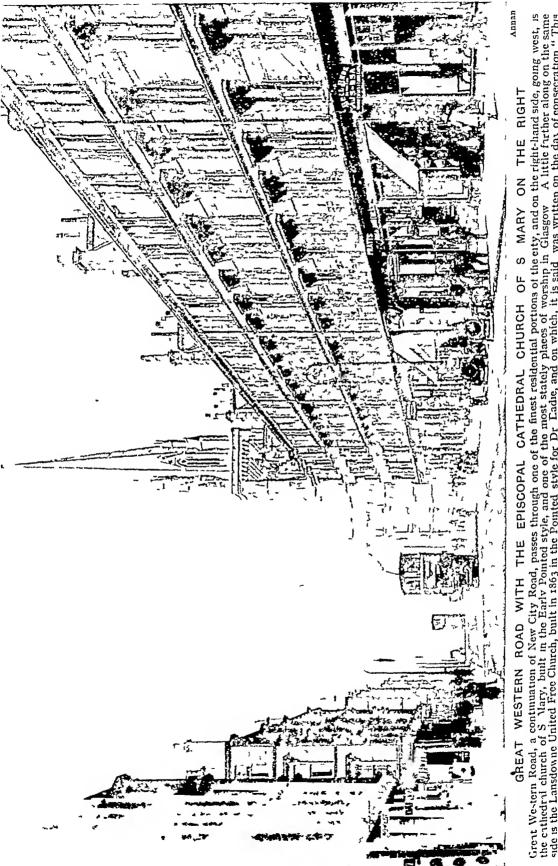
I it all its preoccupation with trade and manufacture ( It you hallong had an eye for the 1 st in perional and d corative art it men lant princes were am in the arliest patrons of modern Continental and Lin Jish point is rwarentida la acconstation lia I so lit wisely from the same quiters and ha man on 1 gift fenomed with. The intention the city in the king long ait of 1 and a vath w manage for construct in it. The

(le m'sly la pomer daen ton age begin to have a ligrity in r putati n. The School of Art in Renfrew Str. ti ope of the most not at calina timilating in the West 1 Sertland lens gr 1 numbers of land-care and heur tunte graduate annually ambited learner art teachers and of a m anyw

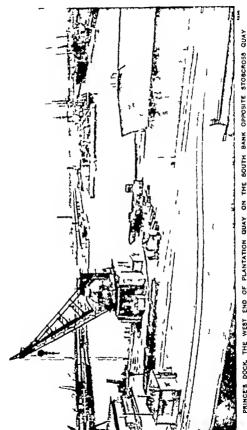
lii ump≪ribliogetaralıkka f what Classes is without having seen the in mil of nier between the Bre smielaw and Bowling The Bromms law se-called from the I room or planta g ni ta that flouri led then when the tream was till only navigable so far for whernes and fisher boils is the oldest whatf and a little lower down than the railway bridges from which it may be seen. Yo spacious channel like the Mersey is here but a fairway of 620 feet at its widest and 362 at its narrowst part nor do closely hemming wan houses appear to court disaster to their windows from the mars of thirs as on the Thames.

#### Down the Clide t Greenock

It is the starting place for the pleasure steamers that go down to the estuary and into distant Highland locks boarding one of these a presage of an hour at most to Creenock reverls the mantime and ship-building over in its



Great Western Road, a continuation of New City Road, passes through one of the finest residential portions of the city, and on the right-hand side, going west, is the cathedral church of S. Mary, built in the Early Pointed style, and one of the most stately places of worship in Glasgow. A little farther along on the same side is the Lansdowne United Free Church, built in 1863 in the Pointed style for Dr. Eadie, and on which, it is said, was written on the day of consecration. This charch is not for the poor and needy, but for the rich and Dr. Eadie."



GLASGOW 2032

every feature. First come the wharves had by packets that ply to English and Irish poits, then berths where Atlantic, Mediterranean and Indian liners safely warp among countless hazards from tigs and unwieldy hopper dredgers, then the jaws of enormous docks where ships of every character from all the world are quartered

# Launching a Leviathan

Long before one reaches the shipbuilding yards is to be heard the clamonr of the hammers, it is astonishing to see on both banks huge, far-extending yards, with the frames or hulls of monster vessels on their stocks. That they can be safely launched bow-on in such a narrow water may well appear incredible, but the thing is done, they are always launched at an angle up or down the stream and checked from reaching the farther bank by chains A mammoth like the Lusitania slides down the ways into her "natural element" in 86 seconds, to be brought up by her 1,000-ton drags about 110 feet from the opposite bank

# Clyde built Boats Everywhere

There are few ports of the world where Clyde-built ships are not familiar, they are found in the strangest water, they have been taken by their own steam into Lake Baikal in the heart of Siberia, they have been put together in parts, like nursery picture-blocks, on inland seas and South African rivers, rajahs' paddlegalleys at Sarawak, missionary ships in Central Africa-there is no concervable type of craft for which the Clyde is not always prepared to contract. The name-plates of the Clyde ship-builder and engineer are to be seen on the largest ocean liners and the most formidable ships of war

For two reasons the Clyde can claim to be the greatest of ship-building centres She is the mother lodge in the freemasonry of men who build fleets, whether in the Thames, Belfast or Stettin, for the first passenger steamboat in Britain was launched there and all the great revolutionary discoveries in marine engineering were made or tested first on her banks

Americans profess to find in the life and bustle of Glasgow much to remind them of cities in the United States. There is here no very visible leisured class except in unhappy times of national unemployment, the men who have made their fortunes usually retire to more sylvan scenes, though they need not go far since half an hour's journey from the city may bring one into exquisite landscapes—valley, moor, mountain or sea-coast.

For the vast army of workers, their leisure is confined very generally to a week or so of holidays at Glasgow Fair, when all but the remotest parts, of Scotland resound to the "Glasgow accent" ("braid Scots" with a little touch of Irish)

## A Tokio for Tea rooms

There are at least half a dozen imposing clubs of the more exclusive order in the city, but the most conspicuous social institution, now that the publichouse hours are greatly limited, is the "A very Tokio for teatea-room rooms," has been the visitor's comment They are more numerous here, more artfully conceived, more varied and lavish in their wares, and more extensively patronised than anywhere else in Europe A very old feature of the Glasgow tea-room is that customers are, as a rule, left to help themselves from well-laden tables, keep count of what they eat, and pay "on honour" Really good restaurants are limited in number, but in the centre of the city have sprung up some excellent ones, and with the dining-rooms and grill-rooms of the railway hotels they are thronged at mid-But late dinner in town is day not to any extent a Glasgow habit, homes are too accessible

As for hotels, the railway termini monopolise the best of them, there are seasons when the need for an increase in the number seems to be urgently required

### GREECE

## Mainland & Isles of Ancient Culture

# by Harold Spender

Author Lecturer and Authority on Creec

RILICE, a mantime unit con i to geographically of a pinn indamiliar in the rithind forming the trichipalage of the togran Sea and including the proups known as the Cyclades the De lecance (piprades) and the Ionian I land. To the south less the very con iderable island of Crete politically united to Creece at the end of the first Balkan War.

Cover is deply indented and poscover an immente contitue in proportion to its use. There are many good historia and even more infettitat in hit be converted into harbours. The coast line is also protected at many joints by islands like Corfu and Fulsora which create natural mad in which happing can be in safety.

The whole instep of Creece for the at century has consisted in one proforged effort to create a proper geographical must for her people. The
stillement which terminated the War
of Independence in 18 S left Creece
with a very small homeland and a
diminative population. While there
were some 5,000 000 Greeks in the
world at that time only 1 000 000 were
contained within the mail area allowed
to Creece by the Creat Powers.

#### Territorial Vicinitodes

After the War of Independence Creece included only the Pyloponnese Attica and Ibocotia. Thessaly was added by the settlement of the Treaty of Berlin and was nearly lost again in the war of 1896. It was not until after the Balkan War of 191-13 that the Creek people really took possession of their peninsula

The Creat War carried forward this development by extending the rule of Greece to southern Macedonla and the I lands of the northern Acgean. She failed to keep hir held over Vaa Minor and was driven out after the war lij the Turk in 1922. She also lost eitern Thrace and thu in pite filer great gains of terning the rain now some 000 000 Crist pools. But if Greece

#### Tart f Ment in R en

These fact very largely account for the continued in turbance of Civik politics and the unrest which character is wall bet foreign affairs. Creece is still in the position of an uncompleted nation. Her full must us not yet achieved.

Such as he is the importance of Cirrece is that she lies as the farthest Cliri tian sovereign unit in the southea t of Furope. The deep thrust of her penin ula down into the Mediterranean gives her a splendid position for commerce and marine interprise and the result is that she derives much of her weith from day owning, but it makes her year vulnerable.

Taken as a whole Greece is very mountainous North and south her interior contains high mountain ranges amel which the plains are few although they have proved of immense hi torical importance. In the Lelononnese for Instance the great plams of Argos and Sparta have played a vital part in history and the plain of Athens shelt red by mountains from the north has given to Athens her constant preeminence Viewed from the sea Greece is everywhere a mas of mountains dominated by the commanding historic peaks of Olympu Parmassus and Helicon which have figured so largely In Greek mythology and literature

Olympus and Parnassus can be seenconspicuous by the shimmer and gleam



MOUNTAINOUS PROMONTORIES AND SCATTERED ISLES OF GREECE

of their eternal snows—from many parts of northern Greece, and their perpetual presences explain their influence over the Greek mind and their prominence in Greek literature

It is not only the coast that is mountainous. In extent and content Greece is one of the most mountainous countries in Europe. Tangled chains cover some four-fifths of the surface. In many parts the mountains run down almost to the sea and the chief aspect of Greece as you approach it from the Mediterranean is this harmonious welding of mountain and sea.

Those who attempt to disentangle the ranges of mountains that make up Greece will find that their main feature is the great backbone which runs down the centre, right to the south of the Peloponnese This backbone is called

the Pindus range in northern Greece, and gathers many other names as it runs southward until it ends with the five-fingered range—the "Pentadaktylon"—which runs into the sea at Cape Matapan

From this main range of the peninsula, as from the Pyrenees and the chief range of the Alps, there run numerous other spurs. The mountains are continued even in the islands, which are nearly all hilly, especially Euboea, which has a conspicuous central range.

When Byron and Hobhouse travelled across Greece in 1809 there was no way of penetrating these mountains except by horseback or mule Now there are a few good roads

Taking the modern sovereignty of Greece, as fixed by the Treaties of In time a amending the Treather of ser and Schulb. Or ce has the following land I undards on the north the southern range of the following group of mentian proving on Lat Market and runnine into the sea opposite the claim of Certae to the rich Market cutting off eatern. The ce few all pring truly broom we fin Thrace I be to Crece. But the whole Christian I is a fin like in the when the present the present of the Market is the present of the Market in the most with the present the present of the Market in the Market

was announced at Lad one in 19.3. The Crife has as neighbours on her immediate north working from west to exit. Whoma Serbia and Bulgaria creating a griving but it pirtl in use of house in boostly inhoration arround two those three it?

So far I r I r Land from a With her d f at in A r Miner in Sept mber 192 freecomple to lost her left on A rac but her main in pass an adult her I less fer a vege? Bell an set when the left it is such at 1 the A g r if it is with at 1 the A g r it it be with a fine of the left has a fine or lost no lost negligible.



RUINS OF CENTURIES AGO BY THE VILLAGE OF ELEUSIS

Lamous and long-less board the series is the last holder of Arechal the cheer of the three great treet, it reclaims, three dishes there is the cheer the treet pairs of lings it has related between the latest three continued it to be be made or the cheer of the board of the cheer of the court of the cheer of the chee

and several smaller islands They were in the war of 1912 occupied by Italy, and a very complex diplomatic warfare is raging round their future possession

The sea frontiers of Greece are the Aegean on the east, the Ionian on the west and the Mediterranean on the south

## Splendid Natural Harbours

The principal sea-inlets are on the west the Gulfs of Arta, Patras, leading to the Gulf of Corinth, practically an inland sea between northern Greece and the Peloponnese, the Gulf of Arcadia in the Peloponnese, the Gulfs of Coron and Laconia to the south, and on the east the Gulfs of Naupha, Aegina, Volo and Salonica If we add the shelter given by the great islands, Corfu, Levkas or Santa Maura, and Euboea, we shall fully realize that Greece possesses unique facilities of protection for her shipping

But if Greece is rich in mountains and harbours, she is very poor in valleys and rivers. It is probable that the diminished rainfall due to the neglect of forestry by the Turks during their four centuries of occupation, has led to the dwindling of the rivers. For it is scarcely possible to imagine that the rivers of ancient Greece, which are spoken of so enthusiastically in Greek literature, correspond to the miserable little brooks of modern Greece.

## Problems of River Drai age

The Ilissus, for instance, is now little more than a succession of pools during Macedonia has important the summer rivers, flowing from north to south at almost equal intervals along the Macedonian coast-line—the Vardar. Struma, the Myesta and the Maritza The draining of these river valleys is the greatest of the enterprises lying before the Greece of the future, and will provide occupation and settlement for a large population Hitherto this under taking has been held back by wars, but peace and the League of Nations have opened up a new hope of achieve ment

But taking northern Greece as a whole, the rivers are few and inconsiderable. The principal are the Salambria in Thessaly, the Arta in Epirus, the Achelous in Acarnania. They drain the central mountain range.

The classical streams still flow, but in diminished volume the Spercheius, through the pass of Thermopylae, the Alpheus in northern Peloponnese, the famous Eurotas in Sparta, of which Byron sang in his historic appeal to Greece

"Oh, who that gallant spirit shall resume,

Leap from Eurotas' banks, and call thee from the tomb?"

and the Styx in Arcadia, with a fall of five hundred feet—not into Hades!

## Romantic but Useless Streams

But the rivers of Greece play little part in her history or her wealth. They are none of them navigable, they are chiefly dry in summer and rapid and muddy in winter. Many disappear into the earth and reappear, like the Garonne in the Pyrenees. They are the haunts of legend and poetry, but of no value to the merchant or the traveller.

The low rainfall of modern Greece is the cause of the falling-off of her rivers. It is also the problem of her agriculture

In a famous passage Herodotus describes a conversation between a Greek and an Egyptian, who has been singing the praises of the Nile as a source of fertility

"But what if your river disappears?" asks the Greek

To which the Egyptian replies "What if your rain stops?"

To-day that reply rings true The Egyptian had some reason on his side

Yet Grecce is plagued with marshes, especially at her river-mouths. The cause is probably to be found in the Turkish ignorance of the science of irrigation continued over many centuries. The draining of these marshes would not merely repopulate and remyigorate Macedonia it would also be

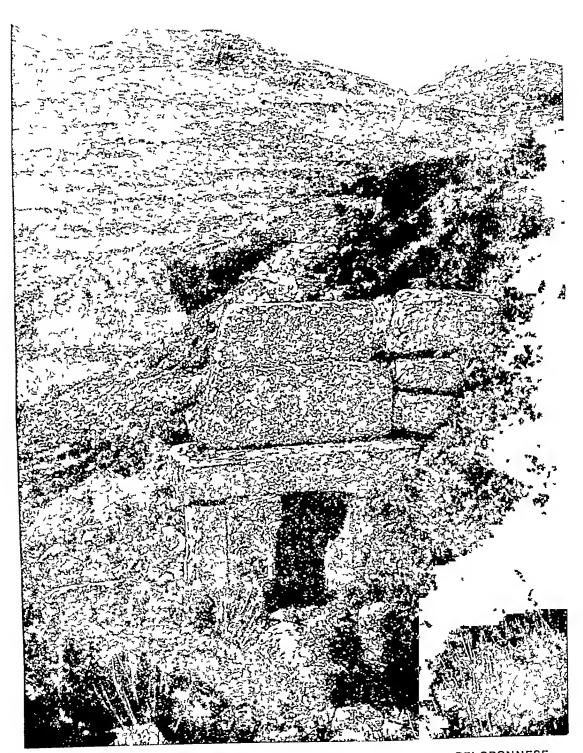


OLYMFIA SCENE OF THE GREAT FESTIVAL IN HONOUR OF SEUS



RUINS OF DELPHI RENOWNED FOR THE FAMOUS ORACLE OF APOLLO Displit lay not it tooks love of Monte Para, was not used the principal or to the worship of Apoll Displays, it is likely late of the worship of Apoll Displays, it is likely as the worse of the Pijiki it may be one of the Pijiki it may be one of the principal or to the country of the principal or to the country of the coun

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ACROPOLIS OF THE ANCIENT CITY OF MYCENAE IN THE PELOPONNESE
Centre of the wonderful Mycenacan civilization, the former capital of an Achaean kingdom and the
residence and burlal-place of Agamemnon, Mycenae had fallen from its former greatness when it
was destroyed by the Argives in 468 n c On the Acropolis the remains of a royal place have been
discovered, and several rock hewn graves containing a number of gold and silver ornaments

a great health measure striking the shrewdest blow at the malaria which is the curse of all this country

Lakes too abound in modern Greece—Phonia in the Poloponnese Agrinion in Vermania and besides all the remarkable lakes of northern Greece the large body of water in Bocotia known as Copais once covering some 55 000 acres. But Copais has been for long the centre of a remarkable enter price the deliberate and sustained effort to reclaim a great tretch of the land covered by the lake.

This interprise has been carried on by a settlement of Briti h inguierra and gives employment to a large population of Creaks. The land thus relained has proved most fertile and it teadily adding to the property of Creece Similar interprises have already been contracted for by Briti h firm in other parts of the perinnella but laive always been field up his war and unrest. The bean contemplated by the League of Nations may now make possible these large undertakings which contain the seed of creat wealth for Creece.

#### Level II versities of Climate

Climatically Greece is governed by the two factors of mountain and sea, Hence the climate is marked by extremes of heat and cold such as are common in mountainous districts sur rounded by ocean. There are many local diversities, produced by the crossing of mountain ranges and the capricious inlets of the sea. The spring is short but sunshiny and beautiful and very rich in flowers. There is great heat in the summer when the Inhabi tants of Athens adopt an almost tropical manner of living taking their slesta in the day and sitting up half through the night. One curious result of this great heat in the summer is that the Greeks all take their meals very late even in the winter Mine o clock is quite a usual hour for dinner

Heat and cold vary so much throughout Greece that the mean temperature for the whole year is not higher than 62 F. The monthly mean temper attire in Athens varies from 80 in July to 46 in January. The rainfall is small and there i practically none in July and August. There are cloudy days but fogs and mists are unknown. Aftica box is some three hundred sunny days in the course of the year. There is the same contract between the sun hine and shade temperature in the winter as is found in Italy or the south of I rance.

#### The Sirocco and the Sea Breeze

The Creek therefor clothe well in winter to meet it possibilities of the heen portherly wind which come from the mountain. The most unpleasant wind of all in Creece is the strocco or Litas which blows at the end of the unimer with the strength of a hot blast and it most perfous to health. Litt it must always be remembered that the climate is tempered by cool sea breezes for maker at any part of the country are you far from the sea.

In the matter of vegetation the typical trie of the Cri k valleys is the olive which supplies Creece with its most characteristic fruit. But Greece is nch in the vegetation also found in southern Italy, which varies according to height. On the lower levels are found the laurel, the mystle, the okt onder the lentisk, the white portlar and the plane.

#### V tions Flowers and Read

The cypress grows well at this level it is the favourite funeral tree of the Greeks and is largely grown round cemeteres. A little higher up—from 1,500 to 3,500 feet—grow the trees of the more temperate parts of Europe the oak the chestnut the pine and the clim. Above that level as in Switzerland are found chiefly the beech and the nine.

The most characteristic of the Greek, spring flowers is the anemone whilch in every kand of colour covers the hillsides during April and May. The historic asphodel has a great reputation and a beautiful name but its flower is by no



Underwood

# THEATRE AND RUINS OF THE TEMPLE OF AESCULAPIUS AT EPIDAURUS

Epidaurus was famous for its temple of Aesculapius, the god of healing, and was visited by the sick from all parts of Greece—The theatre, from the perfect harmony of all its parts and the fame of its architect, Polycleitus, is considered one of the most interesting remains of antiquity in Greece—It was capable of containing 16,000 spectators and had a diameter of about 126 yards

means pleasing to the

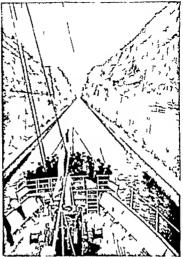
When the heats of summer come on the flowers disappear and Greece in the months of July and August is sing ularly bare of colouring except in the blue of its distances and the searlets of its sunsets.

Of recent years there have been ereat efforts to increase the forest area and now nearly one fifth of the total area of the mainland is afforested But the trouble is that the Greek goat-a most popular animal with the peasantry-is extremely destructive of the new shoots and destricts the voume durubnas scana they are planted. It is hoped however that in the course of time modern Greece may become as nch in vegetation and forestry as the Greece of the ancient world

A great variety of fauna is to be found in the lugher mountains of the Prindus range. Hares and rabbits are very

abundant and foxes are plentful Budgers martens and weards flourish all over the country and poleculs in the forests. Chamois are numerous in the mountains and boars in the wooded districts. There are still wolves and bears in remote parts. I am told that hares and rabbits are rarely found in the same district. Some of the Greek islands have laires and others rabbits but rarely both. On Andros for in stance the laires live in the northern part of the island and rabbits in the southern part.

Greece possesses a great many birds most of them migratory. Among the greater birds are still found those



CORINTH CANAL BEVERING GREECE IN TWAIN Opened in Eq. the canal cell mostl through solid rock, is four guiles long, so lest deep and 70 feet wide, and commet the Guil's of Counts and Arguna, shortening the oy pr from the Jonian be to the port of Athen by soo miles.

glorious and beautiful creatures, the imperial eagle and the golden eagle The yellow vulture and the falcon are common. But the most characteristic bard of Greece is the historic owl of Athena a species of small on listill found everywhere throughout the country Greece abounds in wild birds common in many parts of England-wood pigeons, wild geese ducks, partindges stupe and widgeon. These small wild fowl provide admirable shooting especially in Macedonia. Storks are to be seen in great numbers along the plain of the Vardar river Ireland Greece has still some snakes, although few of them are dangerous,

The surrounding seas contain a great variety of fish, which provide a hving for a large fishing community. The dolphin, the favourite of the ancient Greeks, is still common in the Acge in Sea, and even whales are occasionally seen.

# Gradual Spread of Cultivation

The principal feature in the economic development of modern Greece has been the gradual spread of agricultural cultivation over a singularly bare and arid country. The greater part of the surface is still outside cultivation, and is covered with a prickly bush called phrygana, which provides little more than a bare pasture for sheep and goats But the cultivable area has been steadily extended, and Greece now produces not only olives but also oranges, lemons, dates, almonds, pomegranates and figs At one time the mulberry tree was extensively cultivated, and silk culture used to be a favourite occupation of the inedicial Greeks, especially in Anatolia It is still a large industry and one sees many "orchards" of mulberry trees But during the last century there has taken place a most remarkable expansion of currant-growing, bringing much wealth to the small proprietors Currants are grown chiefly along the sea-coast, and especially along the shores of the Gulf of Corintli, the coast of the western Peloponnese, and on the islands of Cephalonia, or Levkas, and Zanta Almost the whole current imports of western Europe come from Greece and Asia Minor, and it is only of recent years that Australia has begun to compete

# Tobacco for "Egyptian" Cigarettes

Another main crop of Greece is tobacco, which is grown over a wide area The cigarettes known elsewhere as Turkish and Egyptian are mainly made of Greek tobacco. There is in Greece an immense competition in qualities of tobacco and a high skill in tobacco curing The best brands come from the districts of Lamia, Agrinion, Xanthi and Kavala

Greece produces a great variety of small grapes, including the "Roditis"

and the "Moschato" (the muscatel grape), besides a white seedless grape familiar to us as the sultana, which provides an important element in cakes and puddings

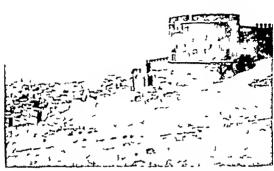
In addition to these crops, large quantities of peaches, apricots, pears and cherries are grown throughout southern Greece

Unhappily for her people, Greece is at present incapable of producing sufficient staple food-products for her population. Maize and barley are extensively cultivated, but there is always a grave deficiency of wheat, and the consequent shortage of flour exposes Greece to the chronic possibility of blockade by any Western power that feels inclined to try that method of coercion. This weakness has played an important part in the history of modern Greece, for she was often blockaded at critical moments during the nineteenth century, both by France and by England. It has also often placed her foreign policy at the mercy of the Great Powers of Europe and is a grave danger to her liberties

## Famed Marbles of Pentelicus

In the matter of minerals, Greece has iron at Laurium and Larimna Mining is also carried on at Larimna for lead, But the unique zinc and silver ore wealth of Greece now, as in the ancient days, is her marble The Attic quarries of Mount Pentelicus, which produced the material for the splendid ancient buildings of Athens erected by Pericles, are still far from exhausted, and many men are still employed in quarrying along the slopes of that mountain The Pentelican is a singularly pure and beautiful marble admirably suited for statuary and public buildings Marble is also still quarried on several of the islands, especially Paros, famed for its lovely "Parian"

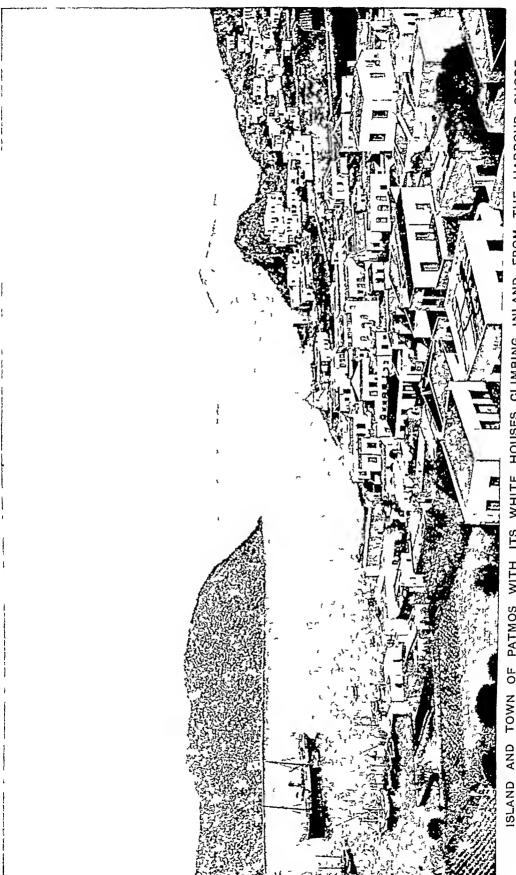
Greece suffers from a complete absence of coal, all of which has to be imported This defect has seriously retarded manufacturing development, and the result is that Greece as a whole still holds a low 2013 GREECE



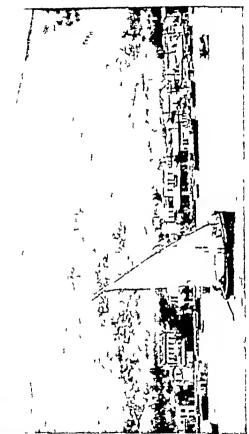
WINARCTS AND CUEF OF ALLONICA FROM THE OLD CITY WALLS



SALONICA. THE CHIEF AEGEAN BEAPORT OF THE BALKAN PENINSULA Size II septime of the new hatcher which is opened it is to me not show the propel time if about between 0. Decembers to it is important to the processing part lesing grain, notes, cattle and septimentations and to seek, and the imports, it takes from proofs are and of me I it is instrumentated without smally taken their, way it had from found me and of me I it is instrumentated without smally taken their, way it had from found me.



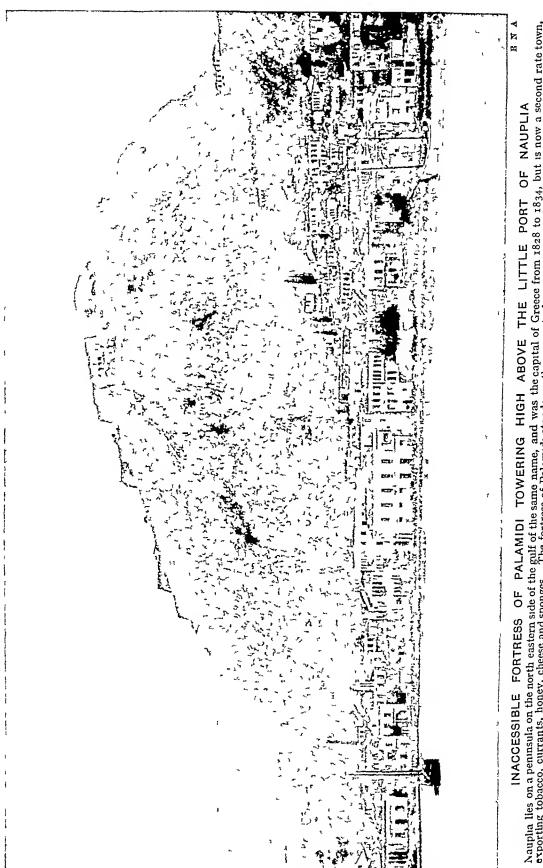
Patmos, one of the islands of the Sperades lying off the coast of Anatolia, is famous as the place of banishment of S John The Monastery of S John the Divine crowns the summit of a high hill outside the town, and is the most conspicuous building on the island, from its roof is a striking panoramic view which is supposed to have suggested some of the imagery of the Revelation of S John The island is very barren, sponge fishing being the only noteworthy industry and a large number of the inhabitants cross to the mainland in order to work as labourers THE HARBOUR SHORE OF PATMOS WITH ITS WHITE HOUSES CLIMBING



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lies on a peninsula on the north eastern side of the gulf of the same name, and was the capital of Greece from 1828 to 1834, but is now a second rate town, used as a prison for the public executioner, who is always a reprieved criminal and needs protection from the embittered relatives of his victims exporting tobacco, currants, noney, cneese and sponges the local statement of the channel, about 500 yards from the shore is the island Turks, access is obtained by means of steps haved out of the rock by the Venetians. In the channel, about 500 yards from the shore is the island Turks, access is obtained by means of steps haved out of the rock by the Venetians. In the channel, about 500 yards from the shore is the island.

place among the manufacturing peoples There are however al sut one hundred freezes, around 4th us and the Pita us - f ir ar I cotton mill factors s for clothand ilk pinning Rotalil on hile ( nek of the mildle class has hown himself an expert merchant and manufacturer 1 than Leyen and in England he has not much some in he coun ountry. That is a things the re on why w many of them migrate ciraler part of the Muliterratean lunk in is in (nek limb and ince the r manemation the fresh people lase Included a mill profesional da a very high tandard.

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The halot of clonding the conformation to the twelf deployed produced deployed to conformation of government. It is a larger than the conformation of the conformation

t recer is still under populated in tern return to lier area. It is a wild indeed that after creat miseries the influx of the refugees from \ in Minor may prove a blessing in diginse when the weakest have died off the stronger survivors of that population may profitably upplement the energies of Greece The exodus of the Ma homedan population going on under the Treats of Lausanne will metitably intensify the racial characteristics of the Creeks. The last traces of Moslem rule are departing, and before the middle of this century it is probable that the population of Creece will be purely Christian and Creek.

The communications of Greece and the islands are naturally very varied and include roads railways and ships. In respect of railways 6 receeds still gravely undersupplied. Through communication with we tern Europe has only been completed inner the close of the Balkan Wars became it was always part of the policy of Turkey to keep (a cee separated from the rest of 1 ur pe

#### Rontes to Greec by La 4 ad Ses

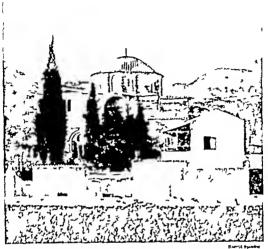
When I first or stell perce in 1997there we no direct railway communication with I urine and there was no appeara has Atlantices optiby sea Since thin threach communication by Belerad. Ni h and Salonica has been comld toll and there i a through arriage on the Orant expressibility times a week although the travilling acros-Balkan is till wonenhat uncertain. The more attractive approach to threee is till in wa and I would trough reomine ad the western traveller to use the neat by way of Insc down the A in the on the Tractino-Lloyd loads ting no at Broth tian I con ing the sir it of thranton Corfu. Thene it is a mest placent and mooth to sage Is was fitl (inf of (orinth and the Cranth (and to the Press The wa approve his way of Salami i one of the med entrancing earingages in the worldm world

#### Short fo of R ilways

In Creece h rell there is a convenient railway running from Athen along the northern coast of the Peloponnese to Latras In way of Megara and Countly That line continues round the western can tof the Peleponnese to Pyrgos where one can visit the runs of Olympia and thence into the interior to Tripolis (Impolitza) which was the capital of the Peloponnese during the War of Independence. It also continues south to Kalamai (Kalamata) But there is still no railway to the town of Sparta or into the south-ca tern districts of the Priorentese The only other railway di trict in Creece is in Thessals, where there is a line running from west to east across the main route between Athens and Salonica It is sincerely



importance it ranks next to Piraeus and Salonica. It is the centre of the currant trade and of a large agricultural district, there are tobacco factories and flour and saw mills in the town. The principal exports are currants (more than half the total exports) said in the town. Situated on the slope of a hill overlooking the Gulf of Patras, Patras is the largest town in the Peloponnese, the fourth largest in Greece, and in commercial of the town The principal exports are currants (more than half the total export), suitinas, winc, hides, tobacco and olive oil, the imports inc goods, machinery and coal The town, which had suffered from carthquakes, his been practically rebuilt since Greece became independent DOWN THE BROAD, ONE



CHURCH AND CONVENT OF DAPHNE ON THE ROAD TO ELEUSIS Standard on the 1rd the ferry? I Apple the downed bareful cost that some beautiful fit) answered stating from the tw light century and under value are to be uncertainty to be a second of the ferry-delte, to be taught to the on ent when the ferry-delte, to be taught to the on ent when the bear a cost of arm to the ferry-delte, to be taught to the control of the 1 dashed delter of the 1 facility delter.

to be hoped that Greece will now take advantage of her peace to add to her railways and also to her hotels.

The lack of railways is not made up by a good supply of other means of transport. At the present moment the roads are very poor owing to long neglect during the prolonged period of war. I shall not easily lorget a motor indebetween Athens and Marathon in 19,3. The car seemed to descend into deep pits not unlike the shell holes in the French roads during the Great. War The roads are a little better farther north and there is now a development of motering in Epirus and Allbanis which may roon open up those remote districts to the tourists of Europe. But Greece requires to spend a great deal of money on her road before they can come up to the standard of those of western Europe

Greece has an extensive ateamship service with all parts of the world while smaller boats ply between the idands.

In regard to electric communication with the Inner and outer world there is a fair telephone system in Athens and Salonica. There is also a fair telegraph service through the country and between the islands while the Eastern Telegraph Company maintains a cable service with the islands and with the principal

capitals of the world There is also a Marconi wireless station at Athens whence messages can be sent by way of Italy to all parts

## British Trade Competition

The external trade of Greece, it will be gathered, consists mainly of an exchange between the export of currants, tobacco, wine and olive oil and the import of cereals and textiles The chief British trade with Greece is in textiles, which are exchanged for currents is to be considered that if this trade be transferred by way of Imperial Preference to Australia, Great Britain will have to look to losing the exports of textiles At present the chief danger is that Italy, which is rapidly developing her manufacture of textiles, may take from Great Britain the markets of Greece and of Egypt

Within the area of Greece itself the chief trade is between town and country Greece is still more than half an agricultural country, and there is great room for development The most forward element in the home policy of M Venizelos was land reform made a serious effort to break up the large estates which ımpede productive power in the north of Greece But the result was that he drew upon him the hostility of the most powerful class in northern Greece—the great absentee landlords-and as he was already opposed by the small peasant proprietors of the Peloponnese, he fell into the unpleasant political position of being between two fires, and it was partly over his land policy that he was defeated in his own country

## Primitive Rural Conditions

The rural conditions of Greece are very much the same as those of southern Italy. The people are aimable and hospitable, except in times of trouble, when they are suspicious and nervous. Their food is primitive. There is generally a monastery within call where the traveller is sumptuously entertained, but visitors must be wirned that the

wine, though pure and good, is generally mixed with resin, which gives it a particularly harsh taste. The cheese is bitter, and is eaten with sugar. The bread is black, and the milk is drawn from goats, as the peasantry possess few cows. There are few large towns in Greece, and Athens stands above all others in aspect and civilization.

Salonica was half destroyed by fire in 1917, and is only now gradually rising from its ashes. Of late years both Athens and Salomca have been swamped with refugees coming from Asia Minor and have lost much of their amenities, both in health conditions and Diseases were spread by refugees, though typhus was stamped out by the energetic medical service brought to bear The houses in Greece are comfortable and airy-admirably adapted to the weather conditions In Macedonia the traveller suffers much from mosquitoes, which are dangerous because they carry malaria. It is wise to include mosquito nets in one's luggage on a summer visit

### Links 'twixt Past and Present

The modern Greek is a tall, slim-built man, with a keen physiognomy and possessed of much mental alertness He is a great talker, fond of open-air cafe life, and generally a keen politician Undoubtedly one of the vexations of Greece is the turbulent interest in politics which pervades all classes The Greeks are a sea people, and sea people are proverbially passionate for Plato lumself described the craze for liberty that characterised the Greek sailor in ancient days, in a famous passage in ' Eolthen "Kingslake describes the discussions on board a Greek ship caught in a storm town populations of modern Greece also show the same passion for faction and change as the town populations of ancient Greece, and the direct inheritance of these political and social traditions seems to be the best reply to those who deny the racial connexion between the modern Greeks and the amount

GREECE



ON THE QUAY AT MITYLENE THE CHIEF TOWN OF THE ISLAND
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DRAWING WATER FROM AN OLD TURKISH WELL, IN A STREET OF MITYLENE TOWNERS and the Control of the Cardes of the Osmail Dupre: the Mand produces since oil, and, or anges and lemons for export, while timiter and pitch are obtained from the pince forces that cover the amountain. There are ever if mineral quanty and remains of ancient boths, the s. (ers of which are said to be pood for the unitation of cell accorded these seeds to be pood for the unitation of cell accorded these seeds.)

2052 GREECE

No traveller, indeed, can doubt that the Greek of the islands is of a purer stock than the Greek of the mainland The physiognomy of the islander recalls the ancient statues, and I have seen on the island of Milo (Melos) Greek girls not unworthy of their descent from the Venus of Milo The great invasions of Greece which took place after the Roman occupation, the invasions by the Slavs, the Turks and the Venetians, have undoubtedly left their mark on the race, and like all modern nations of Europe, the Greeks are a mixed people But they are no more mixed than the ordinary inhabitant of England, who has in his blood the Norman, the Dutch, and even the Jewish strain, as well as the Anglo-Saxon and the British

Taken as a whole, the modern Greek has the right to claim the history of ancient Greece as part of his inheritance, and the strange thing is that his language is less changed from that of ancient Greece than the languages of Italy, France or England are from those of their forerunners An acquaintance with ancient Greek makes it possible to read the Greek papers and listen to Greek speeches with comparative ease, though the written seems less changed than the spoken word

Greece is surrounded with great possibilities and great perils guided, she may crash into even greater disaster than she has yet experienced For her enemies are very near, and her

friends are far away The downfall of Russia and Germany left her with no friends in central and eastern Europe M Venizelos always saw clearly that her future rests entirely upon the goodwill of England and France also wished to make friends with Italy There undoubtedly he was wise Greece is, as yet, too small to do without Her life is still stirred and agonised by the sufferings of the Greek population under Turkish rule the transference of populations, which with no little difficulty was effected by the Lausanne Treaty, will diminish that burden

More than ever before, Greece will possess her own population within her own borders That will give her a great opportunity of developing her large commercial possibilities by means of the education and training of her people For, thanks to her climate, Greece possesses much potential wealth agricultural produce can be immensely increased She might become selfsupporting Her currant crop gives her a valuable asset for foreign trade Her well known and undoubted skill in banking and commerce makes her necessary to Europe's complicated financial systems, and if she can only acquire the prestige of a peaceful policy -both at home and abroad-it is, perhaps, not too much to hope that she will soon regain her high place among the European peoples

#### GEOGRAPHICAL SUMMARY GREECE

Natural Division In essence, Greece is merely the coastal fringe of South Balkania, a piece of a fractured plateau with a drowned coast-line, many estuaries, many islands and few plains Physically a land carved out when the Mediterranean Sea came into existence in its present form, its unity is due entirely to the sea

Climate and Vegetation Mediterranean rainy winters and hot, dry summers are characteristic of the lowlands, the heights are sometimes under perpetual snow Forest-clad slopes without natural grasslands are just as typically Mediterranean, with the cultivated olives, and grapes, which yield a large proportion of the world's currants and sultanas Greek

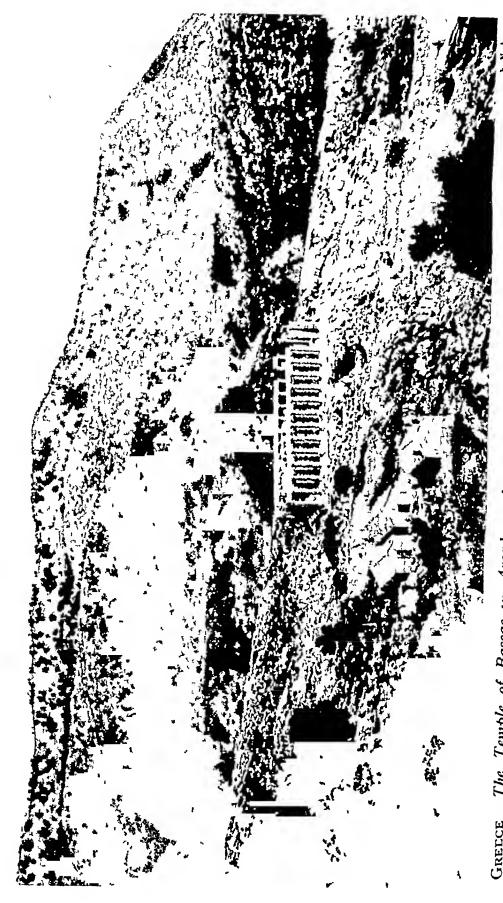
tobacco competes in the cigarette market with that of Virginia

Communications The sea is the great highway The Corinth Canal has not been a great success The railways, few in number, supplement the sea service

Outlook Greece makes little contribution to the major needs of the world except in the personal services, particularly throughout the Levant, of her sons The fragmented nature of the peninsulas and islands compel trading in small quantities, and the Greek is naturally an agent, a middleman, a pedlar in the byways of the Middle East The land is not the cause of unity, and Greece has little hope of solidarity therefrom

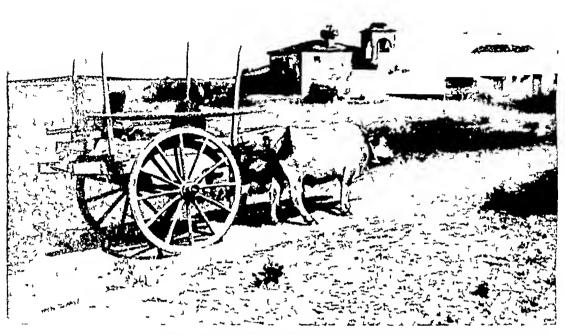


GREECE. On the banks of the Inachus close to Argos, teth its fringe of fruit trees and cypresses and host of historic associations

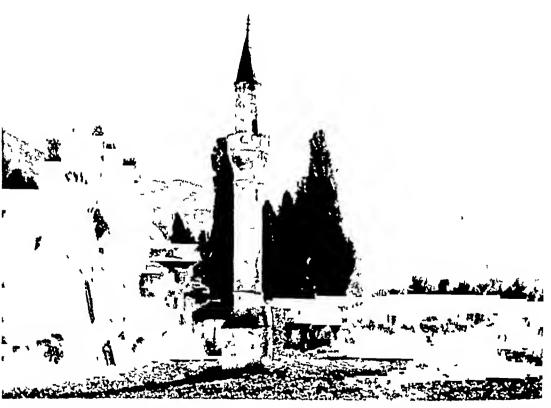


GREECE The Temple of Bassae in Arcadia, where Apollo was worshipped as the god of healing, amid solitary oaks and scattered rocks, forms a strange and unexpected picture in these wild and barren mountains





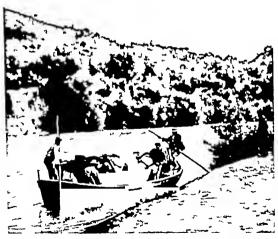
The traveller in Greece becomes familiar with dilapidated farm-houses on which storks build their nests and crude carts drawn by oxen



GRECCE. The slender minaret challenges the towering cypress trees that overshadow the tiny mosque at the pretty Turkish village of Baba



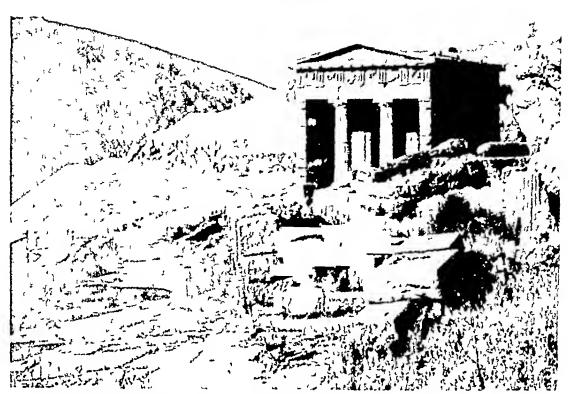
Despite its sterile appearance the Isle of Ilhaca is not without scenes of softer character, where woods of olive trees fringe the shore



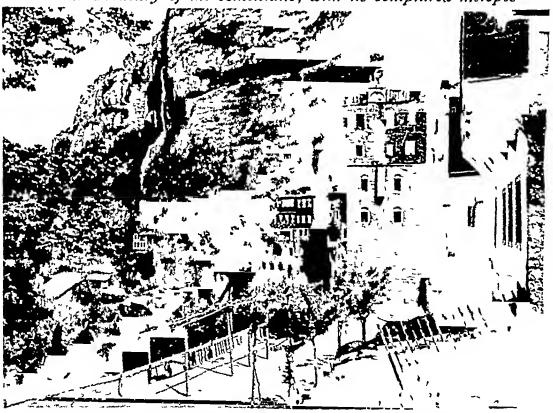
GREECE Quaint ferry half boat half barge that plies across the Alpheus river, where it skirts the wooded slopes about Olympia 2057



fortress of Israntine and Frank construction doministic the twen of 1170s and the



Amid the wonderful ruins of Delphi is the Doric building known as the Treasury of the Athenians, with its sculptured metopes



GREECE. Built in a huge vaulted cave, the monastery of Megaspelaeon seems to be clinging precariously to the face of a lofty cliff 2060

### GREENLAND

# The Great Lone Island of the Arctic Seas

### by A C Seward

Author of "A Summer in Greenland"

TO John Davis in 1585 Greenland appeared to be a land of desidation to most of ns it connotes ky mountains and barrenness. It has little claim to the title of a green land. Like the Red who was the fit i Turopean to set foot in the country in the year 655, on returning to Ierland, spoke of the recently discovered land to the west as "Creenland in the loope that the comety name would induce his comety name would induce his colonising expedition.

Of the thirty five slups which sailed from lerland in os6 fourteen reached the south west coast, and there the Norsemen established themselves with their sheep and cattle. In the middle of the eleventh century the first by hop was amounted and many churches were built. In 1 61 the kepublic of Creen land voluntarily became part of the powerful Norwegian kingdom which at that time included the Isle of Man the Faroe Island and the Orkney and Shetland Islands. In course of time communication between the colors, and the mother country became more irregular and finally owing to civil disturbances and eridenics in Scandinavia entirely ceased.

#### Second Colonisation by the Danes

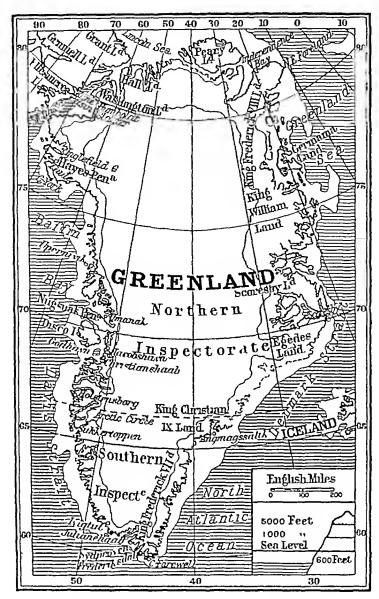
In 1721 the horwegian clergyman Hans Eggle a Drunsh subject, salled to Greenland in the hope of discovering some of the descendants of the neglected horse colonists. Finding only their graves he devoted himself with conspicuous success for the next fifteen years to re-colonisation and the welfare of the Eskimos. In July 1021 the king and Queen of Denmark visited the west and took part in the celebrations

of the become any of the re-colonisation of the land by Hans Ecode. The earlier None colonists had eventually come into conflict with the native inhabitan a who in part at least were probably responsible for their extermination. As a result of the second colonisation trade relations were retablished between settle ments on the west coast and Denmark. Dunne the lait few years discussions have tak n place between Denmark and Norway with regard to their respective rights over some of the un mhabited parts of the east coast the rest of Greenland is recognized as a Danish colony

#### G eenland Mount incom Plates

Greenland is a well-defined geographi cal unit. The expeditions of Admiral Pears of the US Navs and the subse quent journeys of knud kasmussen and other Danish explorers demonstrated its insularity and provided data for manping the northern coast line. The island is separated by a narrow strait on the north western edge from Grant Land Crinnell Land and Ellesmere Land on the confines of the Canadian Arctic archipelago in its fauna and flora as also in its geological structure Creenland is related both to America and Europe. It is a mountainous plateau rising along the coast-line to an average height of two to three thousand feet above the sea, though in some parts the mountains reach a much greater alti-

In shape it resembles a sloce lying on its side the heel with Cape York at the inner corner projecting on the north-west coast towards the Canadian archipelago and the toe, represented by Cape Farewell (on the latitude of



THE ISLAND OF THE VAST ICE-CAP

Christiania in Norway) pointing south The total length is nearly 1,700 miles, the average breadth about 600 miles, the area is four times that of France Long and tortuous fjords penetrate deeply into the edge of the land. Over nearly 90 per cent of the whole lies a continuous shield-shaped mass of ice of unknown depth, the Greenland ice-slieet.

Since 1888, when Nansen first crossed the inland ice from the east coast in the southern part of the island, other explorers have made traverses in the far north and across the middle of the country. This great enveloping sheet

of eternal ice forces slowlymoving glaciers through the valleys and fjords to the edge of the sea one of the largest of these rivers of ice is the Humboldt glacier on the northwest coast immediately Washington south of Land where its seaward margin has a breadth of 60 miles and forms a cliff of ice 300 feet high When the glaciers have ploughed their way into water deep enough to buoy up the mass of ice portions are broken off as icebergs which float out to sea, some stranding on the beach not far from their birthplace, others carried by currents to the Gulf of St Lawrence or farther south

There are few more impressive and beautiful scenes than the view on a calm summer day off the northern coast of the Nugsuak Peninsula a background of some of the highest mountains in Greenland rising almost perpendicularly from the water, the more distant ones dark blue and the

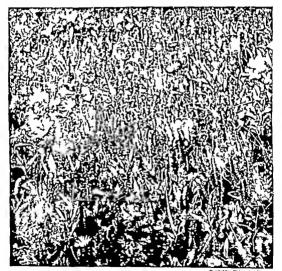
nearer cliffs a glistening pink, the blue sea littered with floating bergs, massive table-like blocks and pinnacled, fantastically shaped forms, shining with a dazzling whiteness and near the undercut base shading into a brilliant blue-green, or, it may be, the linglier peaks of the ice coloured a rose-pink by the slanting rays of the sun higher icebergs rise to over one hundred feet above the surface of the water and extend about eight times as far below time to time the Γrom stillness of the night, a night which is as light as day, is suddenly broken by the thunderous booming of a breaking

berg as the melting of the ice disturbs the equilibrium and the riven mass slowly beaves to and fro until it finally comes to rest in a new position.

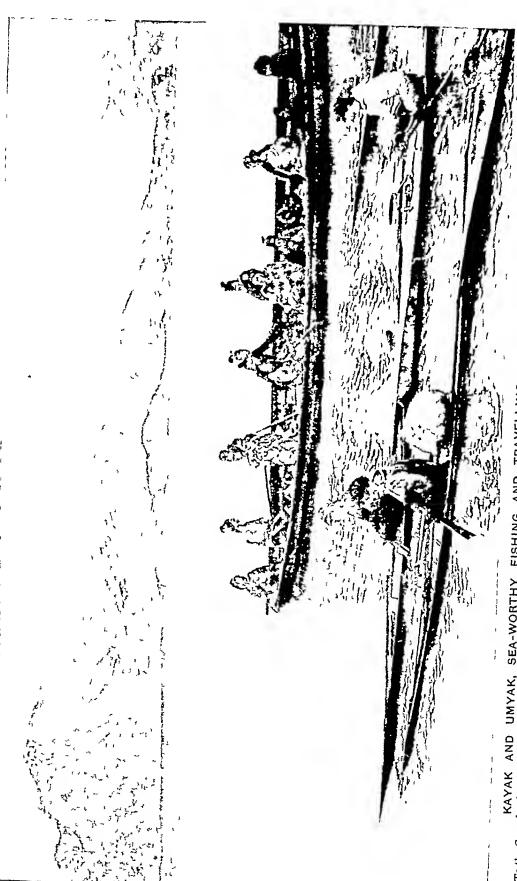
Except in the more northerly part the western coast is almost free from too in the summer. As the frozen sea melts and currents break up the fissured surface leaving occasional patches still adhering to the shore until late in the season the hills and valleys near the coast are gradually laid bare and as soon as the temperature rises above freezing point the winter sleep is suddenly broken and there follows the annual miracle of an earth

rectad with flowers. On some parts of the west coast the ice-free belt is over noo miles in breadth but on the east coast the inland ice comes closer to the sea and the meeting of opposing currents causes an accumulation of floating fee which often forms an effective barrier to ships endeavouring to make land.

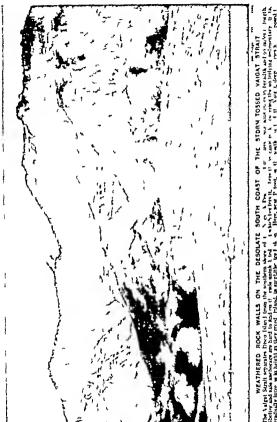
With the exception of the district of Angmagssalik, slightly north of lat 65 N there are no settlements on the more unhospitable eastern shore. It is a remarkable fact that on the deeply indented north coast overlooking the Polar ocean from Peary Land to



THE MIRACLE OF EARTH RE-CLAD IN ARCTIC GREENLAND
Usually sworkstow in the imagination with fey mountains and semies clime, it is surprained
to before their in summer Greenland is lared of sunshine and that flowers and plants, morbiding
ordinals, danadabous and ferris, seen, shows, fourned, abundantly in the coestal repeats
these
extitled colours of four error plants verifying aparty the trumph of his over attention of the



To the Greenlander the kayak, a long, narrow fishing and hunting bort for one person, is an inseparable possession, and its manipulation is reckoned as the preliminary step towards efficiency in obtaining the necessaries of life. It is some seventeen feet in length and nearly two feet in width and is propelled by a double As ancient a type of craft as the kayak is the umyak, usually colled the woman's bort, for its crew in former times consisted only of women bottomed, between 30 and 40 feet long, with skin covered wooden frame, it can carry fairly heavy lugging and is used chiefly for long journeys SEA-WORTHY FISHING AND TRAVELLING BOATS



GREENLAND 2066

Washington Land on the north-west side, there is a broad region relatively free from ice in the summer inhabited byherds of musk oven and decorated with the yellow poppy and other Arctic flowers

# Long Nights of Sunshine

Though the southern portion of Greenland extends a considerable distance south of the Arctic Circle, while the northern shore reaches lat 83° N, the vast sheet of ice over the whole of the interior is a dominant factor in producing an Arctic climate There are, however, striking differences between the two ends of the island in the south the annual rainfall is about fifty inches, in the north it is only eight inches Cape Farewell the longest period of continuous sunlight is 18 hours, Smith Sound in the north the sun is above the horizon for 130 days of Holsteinsborg, near the Arctic Circle, dog-drawn sledges are the only means of transport in the winter over the frozen and snow-covered land. while farther south the life of the native is less sharply divided by the alternating seasons As a Greenlander says, "Up here we live two different lives, in the winter, under the lash of the north wind, in the summer under the torch of the warm sun"

### Vivid Flowers amid Summer Snow

From the sea the coast presents a rugged dignified aspect, in the distance the dark wall of the main plateau is relieved by occasional gleams of white from the inland ice A nearer view shows patches of snow and ice even in summer lying in sheltered hollows on the hillsides, rock-faces sprinkled with variously coloured lichens, the gentler slopes and boulder-strewn beaches and valleys covered with a carpet of stunted shrubs or studded with clumps of white, yellow and purple flowers which afford a striking contrast to the sombre colouring of the ground and the glistening icebergs stranded on the shore

Observations over a series of years at a locality about half-way up the west

coast illustrate the average climatic conditions. The ground is permanently frozen at a depth of about one or two yards below the surface, and the descending roots of the willows and other plants are compelled to spread horizontally. The sun is above the horizon for 65 days, the mean annual temperature in February is approximately 36° F below freezing-point, in July it is 46° F. In London the corresponding temperatures are 10° F above freezing-point and 60° F.

## Rare, Stunted Trees and Shrubs

Greenland is almost entirely a treeless At the southern end there are thickets of willows, birches, junipers, alders, and the American sorb reaching sometimes a height of ten feet or more, but for the most part the only representatives of trees are the dwarf birch and a few willows which even in the most favourable situations seldom attain a height of three feet The slopes of the hills near the coast are covered with a dense growth of flowering plants, compact bushes of willows and greenish-There are grey or light yellow lichens wide stretches of tundra, partially bare ground with patches of vegetation among the ice-worn rocks

A characteristic feature of Arctic vegetation is the burst of activity as soon as the sun breathes upon the froren mountains, in place of the succession of scenes which we associate with an Alpine or English summer, the Greenland flora is compelled to put forth a concentrated effort within the short There is space of about two months an almost explosive development of energy expressed by a sudden display of innumerable flowers, followed in autumn by a brilliant show of crimson, yellow and orange tints before the snow covers the whole surface with a protective sheet In the heath group one of the most abundant plants is Cassiope tetragona, a member of the heath family distinguished by its slender stems encased in four regular rows of scalelike leaves and pendulous yellow bells it is a species unknown in Europe except

2067 GREENLAND



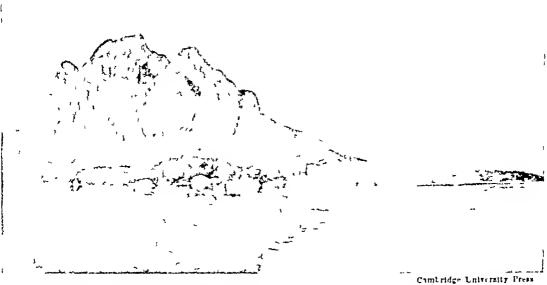
GREENLANDERS PREPARING SEALS FOR THE KITCHEN

UNLESTABLED PREPARING DALES FOR THE KITCHEN

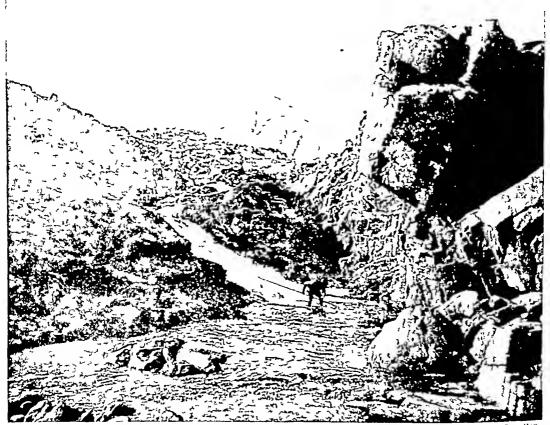
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TRAVELLING IN WINTER WITH DOG TEAMS IN ICE BOUND GREENLAND
When the frozes see prob bit further use of the keys he seedge is the sole means of transport and
ire all for the settlement of Novich Lerrelland, and unsertors does—oal, partil by domesticated and
almost wall that is pre-proces—as completed of drawable national. Usuably each to ten are harsewed
brast of each ther I this select and when the propress spread out in Les Jakoba in front of the draw of



UMANAK ISLE, DETACHED BASTION OF CRYSTALLINE IGNEOUS ROCK
Off the north east coast of the Augsuak Pennsula, on the jagged western shore of Greenland, this
conteal chil whose shape recalls to mind the pinnacled dignity of the Matterhorn rises almost sheer
from the Umanak Pjord to a height of nearly 4 000 feet. At its base among the irregularly shaped
rocks which surround the towering crystalline mass life a plinth is the settlement of Umanak.



Danish Legation

PRIMITIVE FISHING AMONG GREENLAND'S RUGGED ROCKS

At an early age the Greenlander is initiated into the art of hunting and fishing, skins, fish, seal oil and eiderdown drawing a profitable trade. Though animals are not numerous and are represented mainly by the polar bear, reindeer and musk ox, birds are fairly plentiful, while extensive fishing grounds surround the coast, cod and halibut being the chief catch

in northern Scanh avia. List it ha war level over the north of Shen and occup, on the Rocks 31 mi in

With the and effect American Pant are where thete he were which if mile at mil the and thee or I the whit Council Days dick field the with One tentle I trup el el tret Sau an ginift a linte bijlant wirft in a far a the Hemalara manual to a tandram all 1 der in an ataka lape online. I thread they tamen the foolaita ellatinet ipl saller Int the nation faction f an arr a arlt jotts 11 m cm n f the title pergon for 11 mars Interpretation is a series gramable to militable to faller a valler title of get a between placed in parties the more you & the for terms 1 Yam light to to 1 them (a lal tire at all the time a saf and jed thinh a mit temperal teather a stra

### Iters of I race out America

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It has also been upperted that after the placial perior forcedized was connected with fursper by a land bridge which has since disappeared. Some plants were in doubt first local by the early. Nowe colon is friven south from the circumpolar land during the maximum extension of the rect he lartic plants which were able to imprate over land forced congenial localities faither with a the climat become mill it with first in the climated to the north or see not fit the special time with an of timperator and those with the timed to the point high were computed by some of the sents in a congruent by some of the sents in a congruent by some of the sents in a congruency.

#### Meng lines and P 4 Brars

There is practically no cultivation of a cetables, a few are present in the same to the one partitle in little in the most partitle in little in on a little meat the object of the being a small cumber of white I ighnic and those which as impossible from lengths.

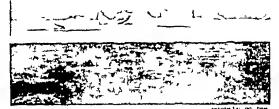
liven in the attementant that are tert et mal sen in the la tall belt Fit as or 1 bettern in their tattre to the the the title write a section wind in the call t for erlay in ment years tern mad tede of in number Amone oler mmm 1 at 11. At tief a the At the nin if and the lemmine the reason at the amount stable temperate the phone man fact almost untround lat at pontiful There are no repulses and no free 1 for latteriles are casemally seen mimer muchs. Il was distribute the are said to be the present with the walou ti napulal and the whale are the most important first animals.

### Independed Polime Der

Common lands are the end r duck gull th little auk pullemot ptar migin the fakon the mall now leanting. Artic terms and raporbills The I lame does which in the north of Or mand are often as numerous as the human inhalatant are usually left in the immer to find for themselves but in the winter they are the constant companions and efficient we ante of both I kinnes and Danes. At som of the settlements fishing is an important indu try liablest and other large flat file are abundant also the maller capelin a member of the salmon family and in some districts excellent salmon are caught



Nearly all the lurge island of Greenland, which lies mainly within the Arctle Circle and is the only colonial possession of Denmark, is a mountainous plateau, STRANDED ICEBERGS IN SHOWING P SUMMER

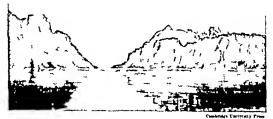


THE GLITTERING BERG. THE MARINERS FOE. OFF DISCO ISLAND
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is to be the market of the state of armine have and less it
is the arm and the weight for the state of the arm in the state of the state of

The greater part of the claim comit of som of the old task of the cartle. Through countlessess most of the crantes has a major and pland but from time to time pirtual invacon by the sea led to the deposition of sedimentary mat teal on the submerged edge of the ancient plateau. It is from these oil sands and muds of different peological

prior) that records have been collected of the Life of former ages

th th coast of Wa lington Land I alace rose linestones are described by the Dambh geologist. Lauge both as vertable total trefs. On lines Island and the adjace in parts of the mainland wateral hundred leet of samistone and hale with occa ontal seams of coal rest on the older rocks, and above them.



HIGHLANDS BORDERING THE EASTERN EDGE OF UMANAK FJORD for coast I Greenland is haracterised by regenfelling often reaching beight 15,000 to 4,000 feet, tribug sheet from the or as its deep not sudding forth pricting following for many military Umanak Flord, off the sent coast is fewered on its societies and ten sides by some of the highest monattals. In Creminal while along the senter medge some of the delet recks are 1 be found.

GREENLAND 2072

is a succession of basaltic lavas and beds of volcanic ash. These sedimentary rocks, belonging to the cretaceous and tertiary periods, contain the remains of a luxuriant flora which clearly indicate climatic conditions as genial as those of southern Europe to-day

Greenland is to-day what the British Isles were during the last great glacial period several thousand years ago, in earlier stages of the earth's history Greenland was a land supporting forests of planes and many other southern trees, with an undergrowth of ferns closely allied to species that are now tropical and subtropical in their distribution By far the most important mineral in Greenland is cryolite, a sodiumaluminium fluoride which occurs at Ivigtut on the south-west coast, and has been imported for many years to Europe as a source of aluminium or for other purposes The mine is worked by a company which pays a royalty to the Danish government Graphite is also mined, and there are two government coal-mines on the west coast

The main occupation of the Eskimos is hunting and fishing. At an early age boys are taught to navigate the kayak, that incomparable canoe-like boat which has played a prominent part in the fortunes of this hardy race for many generations, to use the harpoon and to handle a team of dogs. Formerly the native was dependent for his supply of wood upon the logs washed ashiore after a long journey from the Siberian coast, he had no metals save a little native iron, only bone and stone with which to fashion his boats, weapons and utensils

There are practically no roads in Greenland, in the summer communica-

tion is by boat—the kayak, the much larger umyak, or woman's boat, and the more modern motor-boat There are no carts, no horses nor ponies In the winter, except in the south, the dog sledge replaces the kayak There were no telegraph stations when the writer visited Greenland in 1921, but now some are to be established The Eskimo population is about 14,000, with the exception of Angmagssalik, on the east coast, all the settlements are on the west coast, extending to Upernivik on lat 73 ° N, and the still more northerly Thule, where Knud Rasmussen established a trading station

Many of the Greenland Eskimos show obvious signs of interbreeding with Europeans, it is in the purer-bred northern type from the Cape York district that the race characters are most The average Eskimo has clearly seen brown or copper-coloured Mongolian features, straight, black hair, high clicekbones and a heavy jaw, in stature only slightly less than most Europeans This peaceful and unwarlike folk, who probably first reached Greenland not more than a thousand years ago from the interior of Canada, though their habits are unlivgienic, attract us by their friendliness and sense of humour and by their mastery over nature in her They take little most severe moods thought for the morrow, but they bear bravely the hardships of their life

Dr Nansen, in his sympathetic book on the Eskimos, thus sums up his impressions on Greenland "It is a naked lonely land, like no other land inhabited of man

"But in all its naked poverty, how beautiful it is . "

# GREENLAND GEOGRAPHICAL SUMMARY

Natural Division — Ice capped northern insular plateau (Cf Antarctica) Antipodal to King George V. Land in Antarctica, the east coast is infested with pack ice as are Wilkes Land and Adelie Land A slight shift eastward would make the coasts resemble in position the Ross Sea coast of South Victoria Land, the vest coast of Greenland is similarly ice-free in the summer

Climate Constal Arctic tundra (Cf Arctic lands and Labrador) Inland ice cap with a cirpet of scattered flowers during the brief summer, by contrast Antarctica is without flora and without large land-grazing animals like the muslox and reindeer

Industries Lishing (cf. Labrador, Mining for cryolite and graphite (Cf. Spitsbergen coal.)

### GUIANAS

# Three Colonies of Jungle & Savanna

## by Lilian E Elliott

Author of "lirard To-day and To morrow"

WHERE the porther ast of South ca tern Venezuela deoptene south-ca i from the creat tancted much of the Origone d has the territors of appoint Chayana legins you will find its name written "Carriana on some of the cli main because it was a land where Canle dwelt

Tool , the terntory is reduced to there I angress edonies may I to the Britis h. Dutch and I reach ye ter by it was still clothed with the fatal for of 11 Doralo elitterin, as a hilden country where a relied kine retencel in the thronged city of Manou its rolds streets reflected in the waters of Lake Lamma. The clintified site objective of so many gullant and trage ad entures has within the worthern frontiers of British Cutana near the Rupamum over the hore lak has desirabled to the post of Amucu franged with merald reeds and tall grasses the sluning city i the little indian village of Pirara to the north stand the pale maked rocks of the Lucaraima Mountains south the deep primeval forest. breeder of tales of fantan

#### Where Orleoco and Ameron Jola

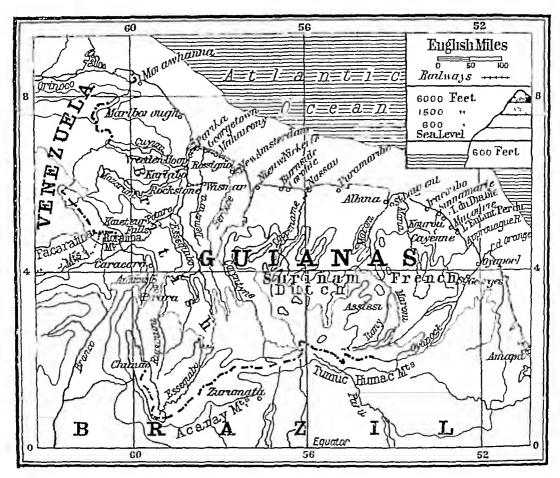
Once upon a time Guana meant all the land between the Ormoco and the Amazon and since tributaries of these two rivers, flowing in opposite directions are actually joined by the natural channel of the Casiquiare th original territor, was an island now part of old Guiana is Venezuelan part Brazilian and the extent of the three colonies of Britain France and Holland amounts to something like 170,000 square miles. The keenly contested question of British Gulana's boundaries with Venezuela

and Brazil (settled by arbitration at the beginning of this century) entailed a careful survey of the magnificent interior and as a result this colony has been excellently surveyed and mapped Much less is known of the funterlands of French and Dutch Guiana, but in all cases the important settled towns stand upon the coa't besid a mier their backs to plain forest and moun tain and then faces to the Mantie

#### Real Corned by M. Care and Siver

Quanas have many topographical attributes in common. Along the littural is a wide margin of alluvial land (generally a blue clay) nich and humsel varying from ten to fifty miles in breadth this strip is almost too well watered by the voluminous and rapid men that in the wet season overflow their lanks create swamps carrying solid matter out to sea form banks anchored by palms and man groves. The cultivated regions of the colonies are practically confined to this constal le lt

Behind it doothills and terraces a few hundred feet high create a wonderful series of gravelands the famous savannas of Guiana hannt of birds and game and to-day grazing great herds of cattle British Guiana owns about 125 000 head. Beyond are wild and terrifically broken regions the mountain masses standing at a mean elevation of 3,500 feet with heads rising to 8,000 and 0,000 leet None of the rivers is navigable in these upper reaches all their waters pour from mountain fastnesses tear a way through dense forest and juncle and da h through gorges in a succession of "runs and cataracts negotiable only



COASTWISE TOWNS AND MYSTERIOUS HINTERLAND OF THE GUIANAS

by the tough dug-outs employed by the riverine Indians

Splendid forest clothes the bases of the ranges, yielding precious gums and balsams and medicines (copaiba. guinine, jalap, sarsaparılla, rubber, vanilla), exquisitely coloured cabinet woods and such hard timbers as the celebrated "greenheart," recently chosen for under-water construction in the Panama Canal, as the most durable in all the world dwell the native races, withdrawn for four hundred years from the coast

The Guianas are hot countries, not far north of the Equator, but the heat of the coast is tempered by prevailing winds from the sea, and residents are proud to claim an average of no more than 80° F The rainfall is heavy all along the coast, but most copious in French Guiana, often recording 135 inches in a year, against British Guiana's

90 inches, and there are two wet seasons, December to February and June to Insect pests breed fast in the August rainy months Just as these lands count themselves rich in orchids and ferns and palms, in such botanic treasures as the Victoria Regia lily, and in animal life that includes the macaw, egret and humming birds, deer and peccary and tapır, jaguar, ocelot, puma, monkey, raccoon and sloth, so are they overendowed with mosquito, tick and sandand centipede, fly. scorpion and dangerous snakes. including enormous anaconda

Alike in most physical characteristics, the three Guianas have each acquired or inherited marked differences. French Guiana, with an area of about 34,000 square miles, is almost enclosed by the Oyapock and the Maroni rivers, with the barrier of the Tumuc Humac Mountains in the south. Off its coast

2075 GULANAS

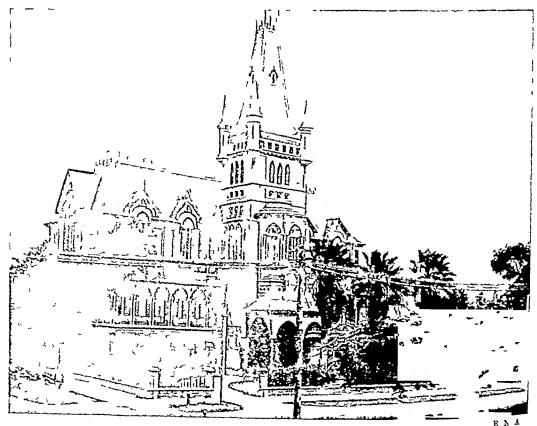


MAJESTIG GRANDEUR OF THE KAIETEUR FALLS ON THE POTARO
Here the Poture, tributary of the Essequinto, makes: shear drop of 74 feet, the falls being about five
times as high so Niagers with which of from 300 to 400 feet. Owing to the small number of setablabbel motortrae requiring power and the remotencies of the falls, which are eleven days yourney from
Georgicous, British Grann, the harmestage of this wart volume of w. ter is superchable.

are a few real islands, L'Enfant Perdu, for example, and the Iles du Diable, known to fame because, upon the chief of these Isles of the Devil, Dreyfus spent the long years of his captivity

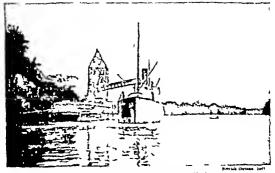
For France once used her share of the golden region as a place of punishment, about one in seven of the inhabitants of the colony was a convict or deporté, while a large proportion to-day are descendants of former exiles, there are less than 50,000 people altogether, as against Dutch Guiana's 100,000 and British Guiana's 310,000 At Cayenne, the capital, on a little island at the mouth of the Cayenne river, is a small resident group of French officials, with merchants and the nondescript flotsam of a tropic backwater Fourteen thousand people now live in the chief town on the Maroni river, St Laurent, boasting telegraphic connexion with Cayenne, and served by small vessels calling for tobacco and sugar, balata, rose-

wood, pepper, hides and feathers, that the colony sends to Europe St Laurent looks over into Dutch territory, and, as the Guianas have always exchanged runaway slaves, ne'er-do-wells itinerant adventurers, there was a certain leakage of convicts, St Georges on the Oyapock river, on the eastern frontier. looks into Brazil Between the two is a sparse edging of settlements, all at river mouths on the Approuague, with its placer gold industry, on the Sinnamarie, the Mana, the Kourou, the Macourie, the Iracoubo None compares with Cayenne, a dreamy, palmembowered, sun-drenched town where grass springs in the streets and one is ınımediately reminded of Port-au-Prince in Haiti Behind the river and coast settlements the country is nearly as much in the hands of the indigenous folk as it was before Ojeda sailed his ship exploring along these shores Across the west frontier, the Maroni



FINE TOWN-HALL IN THE CAPITAL OF BRITISH GUIANA
Buildings such as the town hall and the half-timbered Victoria Law Courts and Cathedral justify the pride which Georgetown takes in them. The streets of the town, shaded with trees, are wide and clean, many having canals, called "trenches," running down the centre on which flourishes the Victoria

GUIANAS



STEAMER LOADING BAUKITE ON THE DEMERARA RIVER

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of alian, he head set led not be types themself and in the ceptibleathered of hardist. The
Dement next the Marchel Manistras had fire injust it alianise theregations it kength
in betty in or of which me's make are any to be by Tipe ships.

becomes the Varowine treet with the Ulbina settlement 40 miles up-stream government steamers of Dutch Guiana (its old name is Surnam) ply up and down the next big river is the noble Surinam and here is Dutch Guiana's capital Paramanto with 40 000 people and as neat and clean and reminiscent of old Holland as Willemstad in the island of Curavao Holland, in 1669 accepted this colony from England in exclusing for New York.

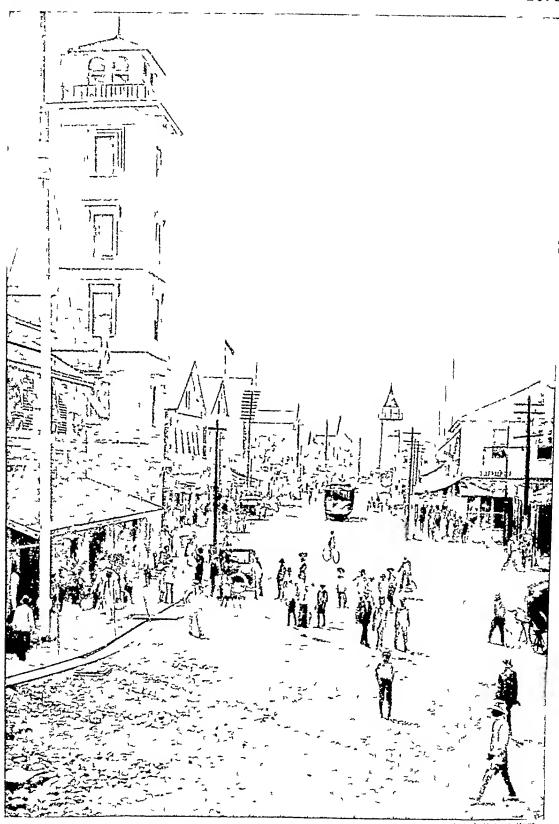
Farther west is the Coppenante river with Nassan village at its mouth on the very lip of the sea stand little Burnside and Coronle and at the frontier with British territory where the Corentyne river ducharges, is Nieuw Nickene, a pleasant sheltered hurbour three miles up-stream. The rivers of the Gulanas are the main roads, and the inland settlements are seldom more than collecting places for the wild rubber the timber and feathers brought from the forests.

British Gulana includes about 90,500 aquare miles and is the most progressive of the trio of colonies. The deep and

brantiful interior rigions are better known canals and toods (\*60 miles open or under construction) and 200 miles of cattle trail are maintained by the covernment the nuneral manufacturing extractive and planting industries are in a comparatively advanced tate and this is the only part of the Guianas that owns railways. There are three strips the first to miles long running east from Georgetown to Mahareon, and thence to Resignol on the opposite side of the Berbice river from the town of New Amsterdam has the distinction of being the oldest of all railways in South America the second o miles runs west to join Parika to Vrceden Ifoop and the third, about the same length links the head waters of the Demerata to the main stream of the Exequibo in a flourishing goldwashing region

Dredging companies, operating on the river produce from fifteen to twenty thousand conces of gold per year but this record is not so dazzling as that of the diamond hunters British Culana and Minas Geraes in Brazil are the only two

D 23

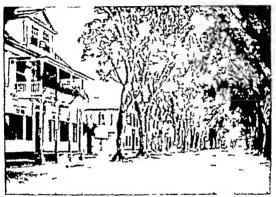


WATER STREET, GEORGETOWN'S PRINCIPAL COMMERCIAL THOROUGHFARE Georgetown, the capital of British Guiana, with a population of about 70,000, lies on the right bank of the Demerara, which is lined with wharves or "stellings", behind these is busy Water Street with its clanging trams and its multitude of stores Other notable streets are Main Street and Brick dam, so called from its brick-like roadway of burnt clay, with its fine avenue of cabbage palms

regions of South America where these jewels are found. To the west of the Essequible are two rivers flowing from Venezuela the Cuyunl and the Mazaruni and along these banks diamonds are discovered. A fair annual average of stones was formerly 16 000 carats worth perhaps froe ooo but in 19 3 production rose to nearly 15 000 carats.

or river banks it would need the certainty of immense returns to justify operations in the wild forests and rugged heights of the interior

The Hollander first established a working alliance with the Indians they will now as then bleed the forest trees for rubber and gums bring feathers and kins to the river trading posts the



LOOKING DOWN HEERENSTRAAT THE MAIN STREET OF PARAMARIBO

Paramaribo, the pital and chief port of Duich Guiana, h population of about 4 oos and is clean, a llefranced goven. The broad it light treet Panked on either side by saturalizent treet, the canal menting i tright angles; t their set and the large squares and irremarkent of form in the Vetherlands. A ally y has run from Paramaribo t Dam on the Sara-creek

worth about \$1,000,000 6,000 hunters are at work. The stones are small but very beautiful Tidris foreign buyers recently opening offlees in Georgetown have created a small Hatton Garden of the Guianas. The largest atone yet found weighs 49 carats.

Deposits of bannie were actively worked during 1923, and signs of petroleum scepage appear to justify old faith that the great of belt stretching across the top of the South American Continent will be found on the Guiana coast. Mining enterprise is necessarily confined, in such a region to the littoral chiefs are solemnly entrusted with the staff of office and keep order in their own domains of the dark forests. They contribute to the trade of the colony bringing down forestal products by the three great waterways the Demerara Essequibo and Berbice from points where river steamers cannot penetrate but with the rubber world depressed the demand for baltat decreases.

The exports of all three Guianas have a family likeness but those of the British colony running up in good years to over £4000,000 are about eight times as large as those of each neighbour



French Guiana has immense forests rich in every kind of timber and mora, largely used in ship building, the silverbally, cedar and littoral and alluvial districts owing to the difficulty and expense in



Dr C 7 Stack

QUAYS AND PIERS ALONG THE BANK OF THE SURINAM RIVER Servary, or Parasagriba as it is more gener life called, is situated on the Servaru about 13 miles level the mosts and he adore to the front or of boat one rule where the mail 1 amore level the pickle. The town contain over 1 find of the forst propol too of the colony and experimental the forces, the and hanasas, importing feetible grant, most and from manufactures

Purchases are regulated by sales and of these purchases by Gulana the Wother Country, bot her former major share during the Great War to the Lusted States but latterly Canada operating steamers to the West Indies has made a gallant bid both as salesman and purchaser. The Dominison of Canada needs exactly the tropical supplies that Gulana produces luxuriantly and with such encouragement and an understanding of the resources and charms of this fertile outpost of empire the British the tropical supplies that the properties of the properties of the British of the British of the British of the properties and an understanding of the resources and charms of this fertile outpost of empire the British of the Br

Cuana production of sugar may rise to the million of tons calculated as possible. Georgetown bright clean with sunny blue-shadowed streets shaded with great urees and bordred with wooden lightly painted bouses raised on legs and gay with scarlet flamboyant and purple bougamvillea that festoons every verandah and baleony is a lively city of 70,000 people and chief port of call of the Guanas. Along the main streets, right angled as when the Dutch first built the city, then called. Stabook.



BEAUTIFUL VISTA ALONG THE UPPER REACHES OF THE SURINAM The river is the most important in Datch Gatans, veneris of considerable tomage being able to seach Paramaribe, while for smaller vensule is to naviety needs of a much greater distance. It is the asternable the post-fields, a regular service becaute on Docalizand. The chief affected the river is the Commerce one dange the benine of which are securited range and encoupering one of the post-field of the river is the Commerce on the season of the season of the season of the post-field of the river is the Commerce of the season of th

bustling trams, while motor-cars dodge the slow-moving oxen. Most of the old canals that once rippled through every street are filled in and gaily planted, but stretches can still be found where water-lilies flourish

Every race and colour is seen upon the cheerful streets of Georgetown, which is the seat of government White-clad Europeans, North and South Americans, Chinese, tending market gardens and curio stores, Syrians, petty traders of all South America, turbanned Hindus with their veiled women, chattering, blue-black negroes, Caribs, come to town in unaccustomed garments, Canary Islanders, a drift of folk from all parts of the West Indies and the Caribbean Sea

The British, despite the heat, have their sports clubs and golf links, there is a race-course, plenty of motor-boating, fishing and shooting, and a pleasant social life The business of the town includes, besides all the export and import trade of the colony, the working of rice, sugar, molasses, citrate of lime and lime-juice factories, as well as other factories for boots and shoes, matches and ice And there is a government dry But the pride of Georgetown is its superb Botanic Gardens, where ten miles of pathways border a glorious riot of tropic beauty, there are pools where the manatee or sea-cow breeds, and scores of lovely water-birds nest as if in wild country

Of this wild country the traveller who visits the wonderful Kaieteur Falls will have a glimpse, if he takes the longer route, all the way from Georgetown, up the Essequibo, to Rockstone, passing at Bartica the junction of the Mazarum and Cuyum with the Essequibo, and sighting Kartabo, the government outpost for naturalists, from Rockstone a small launch and then a walk bring you to Kaieteur, a five days' trip Cataracts have to be negotiated, an experience exciting enough, but the great impression made upon memory is of the majestic forest, draped with air plants and "bush-rope", of the night chorus of the howler monkeys, the ringing note of the bell-bird, the clear sweet call of the troupial, of the strange filtered light, green and golden, in which one sees the dug-out of the cinnamon-skinned forest folk creeping round a ferny bend

Kaieteur itself is a glorious sight—the waters of the Potaro break through the high bare sandstone mountains to drop sheer for 741 feet into a forest-hemmed ravine—Kaieteur is about five times as high—as—Niagara, set in a frame of breath-taking grandeur

It is a fit companion picture to that of the mountain Roraima, raising its fairy pink precipices 9,000 feet above the forest Roraima stands upon the triple boundary of British Guiana, Brazil and Venezuela, a lovely sentinel of the land of El Dorado

# GUIANAS GEOGRAPHICAL SUMMARY

Natural Divisions Mangrove fringed coastal swamps, a cultivable narrow coastal belt Terraces and slopes leading to the Guiana Highlands, which form the boundary to south and west British territory has the wider extent of riverine lowland in the interior

Climate and Vegetation Tropical temperature 80° F, tropical rainfall 80 inches at least, two rainy seasons. The vegetal cover is mainly natural forests on the uplands, gallery forests along the ridges, savanna grasslands on the lower levels, and mangroves and palms on the coast.

Products Cattle (cf Brazil and sense each is a parasition Queensland) Diamonds (cf South future outside its own Africa) Rice (cf the West Indies) Balata abolition of the penal country and gums, hardwood timbers (cf the Guiana is a step forward

Amazon Valley, Brazil) Cane sugar (cf Jamaica)

Communications and Trade Coastal services connect the towns Rivers lead inland to the edge of the upland Railways are operated in British Guiana Canada is renewing an ancient trade by a bid for Guiana markets

Outlook The Guianas rely entirely upon the rest of the world, foreigners exploit their riches, the value of the products and the stimulus to the extractive industries and to cultivation depend upon world price movements. In this sense each is a parasitic colony with a future outside its own control. The abolition of the penal colony in French Guiana is a step forward.

### GUINEA LANDS

# Coastwise Belt 'twixt Sea and Sudan

### by Evans Lewin

Author of Germ n Rule to Minea"

Will Ti known a Clin acon it comm neing at the mouth of the Seneral in al mt 14 North latitud and ext ndm continuate. southern pation of Ingola in about tf South Intitud The land are further divided into tw Epper and Lower Curea the former known popularly a West Minea heine the part with which the

is mainly concerned

The term Currea as airrhed to these countries a new almost 4 4 t no trective geograp lucal agrotication but is airplied lovely to a terrim with a fairly uniform litteral almost very where the and frequently spread of from the ocean in narrow pats of soul behind which are numerous marsles and become Inland the region extend In a series of Israel terrace lik steen to the great central plateau known as the Sudan into which Cuinea menes with out any harp or indeed observable topographical feature, the only possible limit being that hown by the gradual changing of the woodlands and savannas into the gra s and scrublands.

#### E tracion of Court | Footbolds

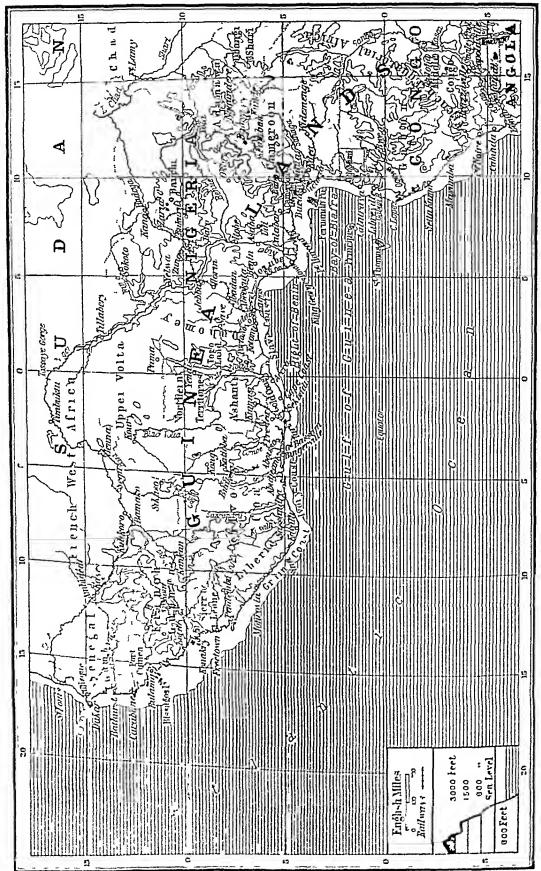
The whole of this region with one exception has been divided between the Furopean coloniung nations who when its potentialities were finally recognized were not slow in extending their coastal footbolds towards the interior plateaux. Although Portugal France Lingland and even Spaln had established, and had succeeded in main taining trading posts on the coasts while other peoples such as the Dutch Danes and Brandenburgers had founded but subsequently abandoned their

settlement at wa not until the Germans became active in the early eighties of the L t century that the scramble for African territors led to am actual I finition of the boundaries of the extune colonies

#### Carridges 1 Pater 1 th Sudan

These in their order from borth to south are Seneral Gambia Portuguese Cunea French Guinea Sierra Leone I theres ly my Coast Gold Coast Dilhomes Sigena which is separately treated bewier in this work Cameroon Rio Muni w Sminish Cuner and Gabun the these of this are more or less similar a regard climat and regetation and with the except in of the three first are bound together in a broad band of company forest which extend almost will out an extinuted freak except in Dalsones from the wouth of Sierra I conc. to the middl f the Calum Colom lour of them Seneral French Guinea Ivory Coa t and Dalsomer, are part of the 14 t territory of I rench West Mrien to which they are attached under a governor-general although each retains its emarate entits as a coloni-

They form the corridors of entry by means of rivers or railways to the western Sudanese plateau which is the hinterland of most of these territories. Three of them form part of what is known as British West Africa but unlike the French colonies which are parts of one great dominion into which they extend on their northern or eastern boundaries thes are divided from each other by wedges of French or other foreign territor. They have not therefore any administrative unity as have the French colonies. These British colonies are Gambia which consists of an enclave at



GUINEA'S LONG CURVE OF SWAMPY COASTLANDS FROM SENEGAL TO CONGO

the mouth of the Gambia river commanding the navigation of that great waterway. Sierra Leone which was originally founded as a home for freed slaves, and the Gold Coast Colony which consists of the colony proper Ashanti and the Aorthern Territories.

Attached to the Gold Coast is a small part of the former German colony of Togoland the other and larger portion now being part of French The coastal lands of West Africa are distinguished from the countries farther north and farther south by having a littoral tolerably well provided with harbours although there are long stretches where natural anchorages are deficient. It was possible therefore for the early oragers by creeping along the coasta in their tiny vessels and anchoring in the numerous small bays and openings to advance slowly from



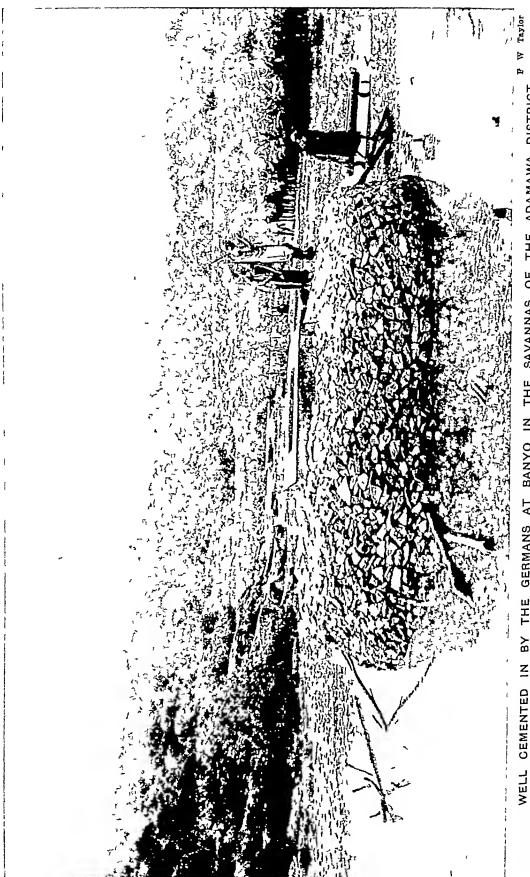
CHILDREN LEARNING TO SPIN COTTON IN THE FRENCH CAMEROON.
Cotton has long been culib test by the auther ( some autent), but as result of the importation of European cotton years the industry has faller more or less int described. Under the Prench
the nather have been encouraged to fasch their cludders some under and profitable trade, a th
the consequences that the country is becoming more prospersors and more civilized.

Dahomey Gabun and the greater part of the former German Cameroon are attached politically to French Equatorial Africa, described elsewhere under the heading of Comeo

There is also one state that retains pointed—though scarcely conomic—independence as a negro republe. This is Liberia originally founded under the surpices of the United States, France and Great Britain as a home for released staves and now the home of a mixed negro population with indegenous races in the hintertand.

point to point and to shelter from the prevailing storms. The unhealthness of the climate lowever generally prevented the establishment of ports and trading-stations except at places where the coast was most exposed to the full force of the Atlantic waves.

Along the Ivory Coast and along part of the Gold Coast as well as the coasts of Togo and Dahomey are large lagoons approached by openings through the sandbanks which protect them from the sea. Throughout this region communication along the coast is possible



Banyo, situated on the border between French and British Cameroon, is the centre of a cattle breeding region from which there was at one cattle, but this has diminished owing to a heavy export duty—Cattle are kept all over the north and centre of the colony, chiefly by the the Adamawa locality affording excellent grazing, but south of the Sanaga river stock farming is impossible owing to the presence of the warx are also plentiful in north Adamawa, Banyo and the Dume district.—The territory was transferred from Germany to France by the

from lagoon to lagoon. The principal natural openings or hathours suitable for ships are the mouth of the Gambia which is a great waterway leading towards the interior the magnificent hathour of Freetown Sierra Leone, the Cameroon estuary and the estuary of the Gabun river. But numerous other harbours fave been developed such as the French part of Dakar in Senegal which is one of the principal entires to the French Sudan, the port of konakrs in French Cuinca, the port of Schondiand Acter in the Gold Co. 1

As one travels inland from any of these ports there is a gradual increase in elevation until the interior plain at tracked but with one or two excepts as the whole region is deficient in great mountam systems such as distingui h It I terteran a east-central Africa rance of no creat beight ends alruptly in the Sierra Leone peninsula and at the Cameroon estuars a large range extends north-eastwards from the lofts Cameroon peak into the region known as Adamawa. This cance is volcanic in origin and is continued across the wa in the Spanish cland of Fernando Po to reamwar at various points in the Atlantic Ocean.

#### W 1 robed of West Africa

The only other notabl mountains are the hills of Futa Jallon This district however is rather an elevated plateau capped by hills than an area of mountains. It is of great importance as the source of many of the large rivers of West Africa such as the Gambia and Senegal. In this respect though not in the height of the mountains it may be compared with Abysinia which forms the catchment area in the north-east of the continent.

In a region generally favoured with abundant rains the rivers are naturally important. West Africa is therefore entirely different from northern Africa for stretching from the mouth of the Senegal to the mouth of the Congo are numerous great waterways some of great length and most of them affording

though frequently broken by rankle means of communication for native craft or small launches. Numerous smaller but yet important rivers such as the havalle Sassandra and Volta, drain southwards through the Ivory Coast and the Gold Coast to the cradual descent to the coasts many of these rivers are slow moving excert where they fall over rocky descents and pass through narrow but som of the shorter roller are too rapid and tren leteuro broken for navigation

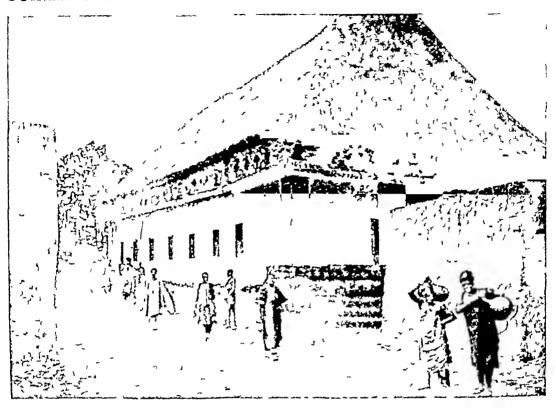
#### I' t 1 Climete for the Whites

The region has four well marked prological types crivialline rocks ete taccors strata tertiary beds of loam and sand and the lelta and mangrove swamp. The area of the last named is a character i tie feature of the coist from French Cunna to the Congo but all are small in conjusticiam with the colosed swamp at the Bight of Biafra into which more than its into large rivers discharge their still bedy waters.

The climate of West Africa has been fatal in the past to Europeans. Even now with all the a lyantages of modern medical science and the great advances that have been made in the practice of tropical hygiene great care has to be exercised by those who desire to reside in the country Frequent journeys to Europe are requisite and the small white population does not live in any part of Gumea as a settled community but as temporary sojourners whose duties as officials merchants engineers or miners oblige them to live in a country that otherwise would be inhabited soldy by the negro races.

#### Healthy E ceptions to the Rule

hevertheless in many parts the climate is such that it is not essentially unhealthy and diseases arising from it can generally be avoided, though the lastitude it engenders can not. The most unhealthy portions are the swampy coastal areas and the deltas of the great rivers. The healthlest are



WHITEWASHED BUILDING OF THE NATIVE SCHOOL AT FUMBAN
Fumban, the chief town of the district of the same name, is in the I rench Cameroon about 150
miles north east of Duala, the main scaport and present capital. In the coastal regions the climate is
hot and moist, but in the interior the temperature varies considerably being highest in the Lake
Chad basin. The exports include rubber, palm oil and kernels, and cocoa.

the highlands around Freetown, and Buea in Cameroon, the sandy and exposed coasts wherever lagoons do not exist, and the more elevated inland plateaux where the rainfall is small

The area between 3° or 4° latitude on either side of the Equator has a high temperature with little variation dry season is reduced to a minimum, and there are two definite wet seasons, the rainfall being particularly heavy near the coasts in many parts of West Africa Beyond this area, especially in the north. there is usually one long wet season and The limits inone long dry season dicated above are, of course, only ap-The rainiest district is proximate stated to be just west of Mount Cameroon where 300 inches have been recorded, and the lowest rainfall occurs in the regions merging into the Sudan and The most trying feature of the climate generally is the predisposition to the multiplication of mosquitoes, the tsetse-fly and other disease-bearing

insects, though the diseases they carry cannot be said in any strict sense to be due to the climate

Unlike the flora of many tropical countries, particularly that of South America, that of Guinea cannot be regarded as very varied, but it is extraordinarily rich in economic vegetation, the uses of which are being developed for the service of mankind In the more arid regions of the north tamarinds and doom palms alternate with cultivated areas and small forests Farther south on the coastlands and in the region of savannas and rain-forests are the oilpalm, native to West Africa, the coconut palm, the bamboo and numerous kinds of rubber-bearing plants, together with cotton, cassava, yams, maize, rice, cocoa, kola, and the banana and plantain There are very numerous nutbearing trees, which are of the utmost value in commerce Among timbers are the mahogany, cedar, ebony, red ironwood and various kinds of yellow woods

Throughout West Africa there stretches a great forest area-one of the most important in the world. This region corresponds with the area of abundant rainfall and in many districts little has been done either to develop or conserve the great forest resources. Where they have been developed as in the Gold Coast where the trade in mahogant is extensive considerable areas have been cicared but frequently the forests extend in masses of trees of considerable beight linked together by lianas or elimbers, with occasional elearnes made for native villages. In the evergreen forest which extends into the Congo regions grasses are absent herbs scarce and the soil damp and rich in fungoid growth and frequently awarmen

South of this great forest area are the mangrove forests of the purely coastal districts extending from the Ivor. Coast to the delta of the Niger which i one vait mangrove swamp and thence continuing souther of into Camer in

North of it are the woodlands and savanna. This is a part-tike formation rich in herbs and particularly grasses much more open than the rain forests and containing within list area numerous freshwater swamp forests occupying the vicinity of the great rivers. The savanna lands are characteristic of parts of Serra Leone the Northern Territories of the Gold Coast and the northern hinterland of Cameroon as well as considerable portions of Dahomey and other parts of French West Africa.

In the economic development of the vegetable riches of Guinea considerable progress has been made. The product of the oil palm is a highly important feature of its economic life particularly in the region extending from Sierra Leone to Camerron from the seaboard towards the interior. Here a great in duty, has been set in motion through the enterprise of large European oil cruding firms who are now drawing enormous upplies of oil muts from West.



CLEARING A COCOA PLANTATION IN THE IVORY COAST
The eres moder forest in the Ivory Coast is estimated as 7,2,000 square miles out of a total area of 15,000 ground miles. Cook plantation, belong both to European and satter planters, are on the forests, for cook grown with all forms one of the chief apports, and there are very cruit or the forests where the nutries recent instruction in the method of fremeritage the beams.



LACUSTRINE DWELLINGS AT KOTONU, THE CHIEF PORT OF DAHOMEY kotonu with a population of 2,500 is a well planned town and busy trading centre lying in an angle formed on the south by the sea and on the east by the channel leading to Lake Nokue The chief exports are maize, palin kernels and oil, copra and kola nuts From here a railway runs to Save, a distance of about 156 iniles, with a branch line to Whydah



NATIVE DWELLINGS IN THE FRENCH COLONY OF DAHOMEY

Dahomey, a very populous colony of France in West Africa, has an estimated population of 842,240 and an area of 42,460 square miles The natives in the coast regions are good agriculturists, the chief crops being maize, manioc, yams and potatoes The forests contain numerous trees which furnish hard timber There is an abundance of bamboo and the oil-palms yield kernels and oil



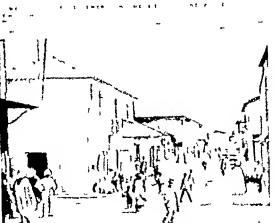
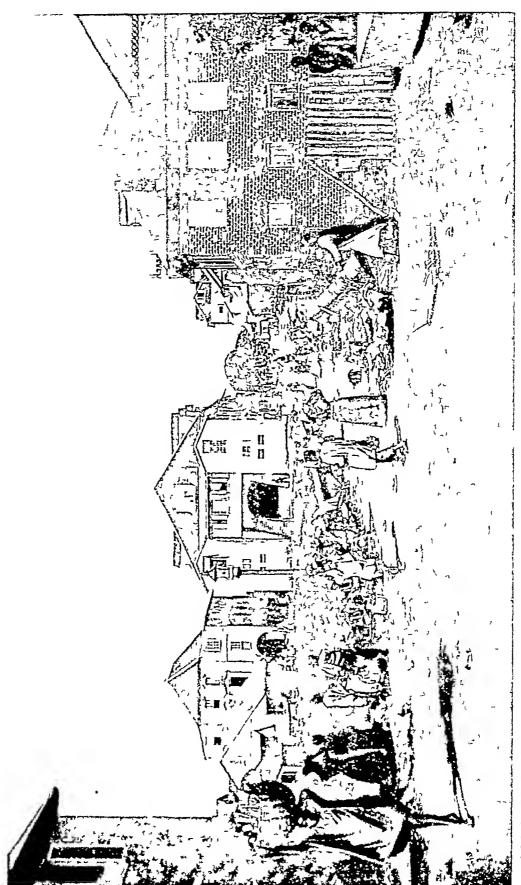


Fig. 647 (6414 to Fifty & Obt of States) Collect for the States of States of



the capital of the colon), a port with the best harbour on the West Coast of Africa and a coaling station, is a busy trading centre, with a population of 44,000 attended of the Sierra Leone peninsula. A cathedral, several educational establishments and public buildings, a railway and AFRICA The areas of the colony and protectorate of Sterra Leone, British territory in West Africa, are 4,000 square miles and 27,000 square miles respectively LEONE AND FREETOWN,

Africa The oil palm is not planted and cultivated as Is now the cale in Sumatra and other parts of the La 1 Indes but advantage is taken of the natural tree which supplies natus gatherers with all the kernels they inquire. Creat quantities of palm kernels or oil are exported from Sierra Leone. Camercom and French West Africa perally. In one year (1919) palm products to the value of nearly fit occasion came from Britt in West Africa alone.

Cocoa is the principal export of the Gold Coast and Is also cultivated exten ively in Cameroon. The ground not Is a creat leature of native cultivation in the Cambia Colons, where it is the principal product and throughout Seneral and Leench West Mesea gener ally It cannot be too strongly em plusted that these three products along render Nest Urica of great economic value. There is however an other product cotton which although not as yet exten well cultivated for the European market has always been an important item of native commerce In Nest Africa there are val areas suitable for this crop though some of these areas cannot be exploited properly without greatly extended systems of railway transport

#### Source of Gold for 2 000 Years

Of the mineral products of West Africa rold and tin are the most valu able. The alluvial river gold of the Gold Coast wa famed in the time of Herodotus who mentions trading on the coast but it is only during com paratively recent years that actual mining operations have been under taken. The principal nunes are situated in the west of the colony in the Prestea, Tarkwa and Abose districts and also in Ashanti. Here a great Industry has been gradually built up. Manganese is mined in the Gold Coast and exported therefrom while throughout many parts of West Africa there are small workings of iron exploited by the natives by primitive methods for their own uses.

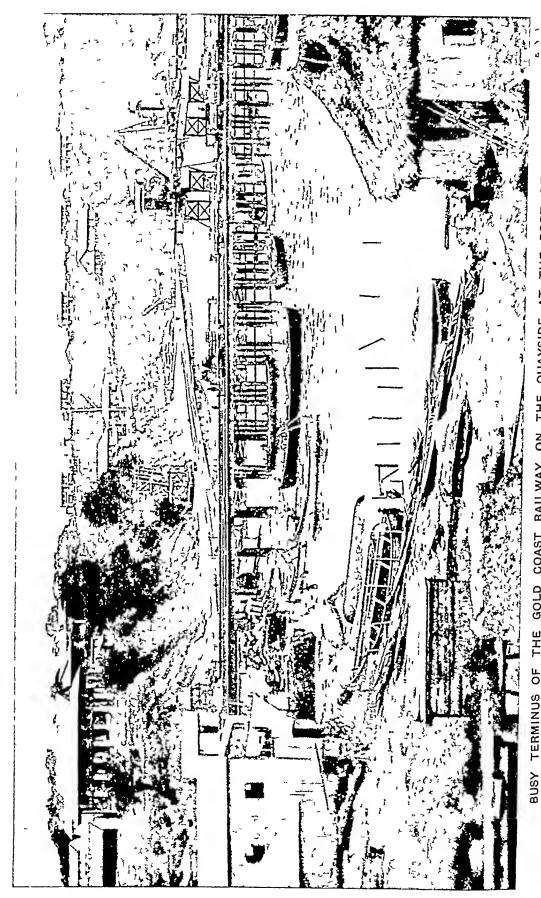
The primary occupations of the natives in a country like West Africa are naturally agricultural. In the more densely perchal districts the natives grow their own crops and bring them to the larger towns for sale they are industrious and nuck to learn they cannot be called skilled agriculturn to for their method, are to-day almost as primitive as these of their early forelathers. The native farmers frequently work hard and where there is sufficient incentive they di play con algrable enterprise and are riady to adopt new id as and method if it can be shown to them that these arlikely to prove of permanent benefit to themselves It was entirely owing to this adjustability that the cocoa industry becam so triking a success

#### Instruction the Natl F reser

The policy of the I propean govern ments in lest Minea is to encourage the natives by every posible means to become independent farmers owning and working their lands as their own masters instead of as hired men the Gold Coast, for example agricultural departments have been established with trained travelling officials whose duty it is to teach the most efficient means of cultivation. In this way there is being established a self reliant peasantry which will become the backbone of the country and serve as a counterpoise to the sometimes highly educated native clerical class that has been developed in the cities and especially in Sierra Leone the Gold Coast and Senegal.

#### Stability of Political Life

Members of the clerical class act as lawyers doctors and ministers of religion and occupy posts in the cavil service. By reason of their better education they are the political leaders of the people except in those districts where the authority of the paramount chiefs is still respected and upbeld With a peasantry secure in its possessions atability is being introduced into the political life and the two classes are



Sekondi, lying between Dixcove and Cape Coast Castle, is the principal port of the colony, though there is no slicitered hirbour, only piers provided with cranes if the landing stage, but i deep water harbour is being constructed it Takoradi about five miles away. The town is one of the old triding posts of the Guinea Coast Fort Orange having been built by the Dutch in 1640, but it was of comparatively small importance until the sea terminus of the rulw it to the gold infining districts and kumasi was established here. The exports include cocoa, gold, manganese ore rubber and timber. COAST RAILWAY ON THE QUAYSIDE AT

likely to work together in close cooperation for the common welfare

There are of course many industries in a complex secrety like that of West Arica such as native carpentry black smithing working in metal and weaving and taken as a whole the tage of civiliration is much higher than that which exists in Central or Lastern Mrica

The devel priment of Cuinea is being accomple bed primently by means of rail ways. Although motor transport is used The French however have elaborated a great plan of railway communication from west to east throughout their colonies in order to bring the central and western Sudanese districts into direct contact with the ports of Dakar and konakry and by means of north to-south branch lines with the ports of trand Bisseum just south of Bingerville the capital of the Ivory Costs and Kotonia in Dakomey. Thus the produce of the central portion of the French



CAPE COAST CASTLE ON ITS JUTTING MASS OF SEA WASHED ROCK CIPCON Library 1 (SEPTIN) 1 (1124 Section 1 of strong wind fact the acquire label to the section to

extensively in the Northern Territories of the Gold Coast and A hanti as a Hasin considerable areas in the Leench colonies its main function is for 151 when traffic and to bring produce to the railways from di tricts far from the coasts. It will never be able to compete succes, fulls with railway communication In the respect it differs from communication by means of waterways which as a general rule wherever they can be utilised, are of service as a means of direct communication between the in terior and the coastal ports. The present system of railways is designed to bring the produce of the interior to the nearest ports and no attempt has been made to join the colonies by communications along the great northern plateaux

Sulin may be brought to the shores of the Culf of Cunea

The I trench have boult a railway from Dakar to kajiyas and Ambakidi on the Senegal river and thence to Bamako and kuhk wo on the Niger in order to secure their communications with Timbuktu and the Sahara and from komakr, in French ( unea to Kankan on the Milo branch of the Niger so as to open a way to the more southerly regions of the French Sudan.

Another line runs from the Dakar hayes railway parallel with the coast to the port of St. Louls at the mouth of the benegal. In the Ivory Coast a railway runs from Abidjan on the lagoon close to Grand Bassam northwards to hati oba. In Togoland the French have

taken over the German railways running northwards, and in the adjacent colony of Dahomey they have built a line from the port of Kotonu to Savé, a town in the interior, and joined the various small coastal ports with Porto Novo from which a small line also runs northwards. Two railways were already built by the Germans from the port of Duala, a magnificent harbour on the Cameroon estuary, destined to become the outlet not only for the greater part of Cameroon but also for the French Equatorial African colonies

So far as the British West African railways are concerned, they have been built primarily for economic purposes and in most cases construction has proceeded upon entirely practical lines The three principal colonies thus possess systems that are of considerable utility and importance Nevertheless there has been a lack of foresight and cooperation between the different colonies Leone has railways built on a narrow gauge, so that if in the future through communication between Freetown and the French Sudan, and across the Sahara to Algeria, should become politically and economically practicable, the existing line would have to be entirely icconstructed The importance of Freetown as a port of entry on the world-routes of the future, owing to its proximity to the South American coasts, needs no special demonstration

In the Gold Coast there are two main lines running respectively from the port of Sekondi to the gold-fields and Kumasi, the capital of Ashanti, and from Accra northwards through the plantation regions in the east of the colony

In considering the trade of Guinea it is necessary to remember that the greater part of the exported produce is carried to Europe, mainly Great Britain and France, although there have been certain developments in connexion with the extension of trade with Canada There are direct steamship lines running from Liverpool and Marseilles to the principal Guinea ports Until comparatively recently trading in the up-country districts was largely carried on through the medium of gin and other trade-spirits, but measures have been adopted to check and reduce a traffic so detrimental to the welfare of the natives

Apart from the coastal cities which have been developed mainly by the growth in commerce, the native population of Guinea is distributed throughout numerous large villages, these villages are generally the centres of native tribes and the capitals of local chieftains. In the Gold Coast, however, Kumasi is a considerable city with a small European population.

# GUINEA LANDS GEOGRAPHICAL SUMMARY

Natural Division The coastal lowlands and the edge of the African plateau along the shores of the Gulf of Guinea Familiarly known as West Africa, the coastal sill is narrower than, though in other physical respects—deltas, coastal lagoons swamps, etc—similar to, that of East Africa Inland lies the great natural region of the Sudan, and the political units of the Guinea Lands extend in varying degrees into the Sudan (q v)

Climate and Vegetation Tropical rains reach a maximum exceeding 350 inches annually Tropical temperatures about 80° F, with slight variations Land and sea breezes of local origin are important factors in the climate as it affects white sojourners Mangrove swamps and forest line the coast, and a belt of tropical forest (cf the Congo) lies along the plateau edge

Products Cultivation is limited to

clearings and the forest supplies the principal products mahogany, ebony, ground-nuts, bamboo, coconuts, rubber, cacao and palm-oil Gold, coal and manganese are mined

Communications Lagoons and water courses serve for local transport While railways running, in the main, into the Sudan from coastal termini serve the purposes of Europeans, these railways, at present individual, will probably be joined by cross-connexions (cf Queensland, Australia)

Outlook Relatively a handful of white traders, officials and engineers has established a peaceful and ordered regime in the interests of the exploitation of the forest resources Settled government and effective continued training of the numerous natives march hand-in-hand with economic progress and development.

### HAMBURG

# Greatest Port of Continental Europe

### by W II Disson

Aut ref Tl la I terr of Modern Germany"

THE ancient Har eats city Harriote til aller (its ar f interest at a attack of fewsymania information is must of on the lower like more to mile di tatt In-n the tive reath in th South the and is entirely a to the the imperatives of Hanner and Seldown II do ltr t a tl largest and meet be, mixed was me in the Continent the him exist of lareren trade it fal. lebit l lar. n Cherry and Invest of artification litten lebit I the Int to I the e one lead but alm n traine i n pro-the begod by not word blin form just fille city of which it i mer leager en tun

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Much of the land i mar li, for lt his last little al w normal ligh water mark and not more thin to feet also, the sealevel with the result that in spite of the protection afforded by dykes flooding is common in the interest of samitation a matter to which the city fathers of Hamburg have attached the greatest imparance since the devastating close at epidemic of 1891 which cost nearly eight thousand lives the stagnant water of the swamps is systematically pumped out.

Hamburg a population is overwhelm ingly Protestant but as might be special in a city almost exclusively excipted in commercial pursuit, the J with tall it will represented. There has always him a trongle respondement the proportional of it for the Great Warrheing at at the jet of it extends the rath for ill C orm in T. The alone I ment for all first norm he alongs continuous apart from the familie of Botto bloods with half in ourse of time been nation. I will be a server of the local part of the server of time been nation.

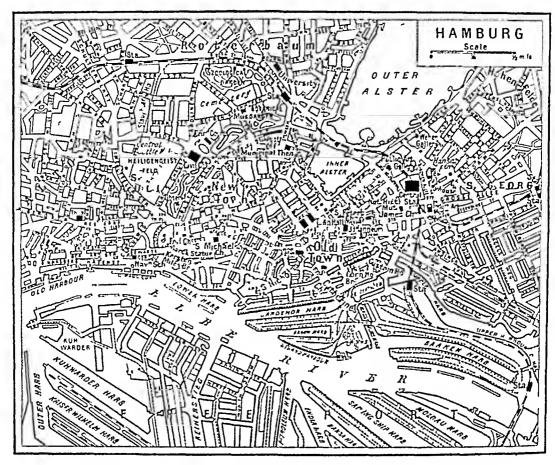
### City I No Mrs. City

It is I'r flI mburg mas ju th laim it I nur n of no mean city it introve by lack it the time of city ill main who is left to be introversely in n a member of the II German I nu n a member of the II German I nur is it from bit in the will distribute the window of the Funders and it like it is a kading member of the Illansiate. Learne duting from 1255 I its self-contains I and a raim to itself in a way that perhips to other German consequence.

Theuching the peken of as situated on the 12be. Hamburg's exact position is at the punction with that river of the two fuluitary treams, the Material Bill and the greater part of the citi in fact hadton the Albert Whates Known as "inner". Hamburg the oldest urvival of the original river settlement is divided into the Old Town and the New Town. Interestinging west and north of the New Town are the purishes of S. Laull and S. Georg with some twenty other district many incorporated within recent years lying on both banks of the Albert.

As in the case of most ancient towns whose growth has been constructed by natural obstacles and the exitence of fortifications the older streets of

HAMBURG 2098



MAZE OF HAMBURG DOCKS AND BASINS LINING THE ELBE

Hamburg are predominantly narrow and crooked, beginning anywhere and ending nowhere in particular, but space, light and air are being increasingly admitted into confined and murky places Whole quarters of the old city have been demolished and replaced by well built streets, and wherever working class populations were dislodged efforts were made to provide for their future habitation, if not on the old site, as near to their workplaces as possible There has also been much replacement of old property by new in the business and residential districts Handsome buildings have sprung up in all directions, . fine avenues have been laid out, and large gardens and other open spaces have been set aside for public use, while on the periphery spacious parks have been provided.

Old tradition, the convenience of commerce and the regulations incidental to modern town-planning have so ar-

ranged that the docks, great warehouses, ship-building yards and factories are mostly located on and about the river banks in the southern part of the city area and in the Hammerbrook quarter to the east, a large part of which is practically given up to factories and workshops of all kinds, though the large works are more and more found in the suburban districts

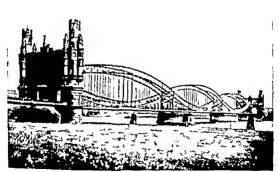
For, as is the case with Liverpool or Cardiff, Hamburg's prosperity has been built upon a multitude of industries supplementary to its shipping trade, chief among them are ship-building, iron founding, works, machine chemical, glass-blowing, piano, jute, wool-combing, margarine, biscuit and chocolate manufactories, sugar and spirit refineries, corn, rice and oil mills, and an important clothing trade working classes congregate in the crowded quarters of the Old and New Towns, particularly in the neighbourhood

of the harbours and in the populous districts lying to the cast and southeast of the city proper

The busiest centre of traffic and trade however is the S Pauli quarter Here converge all the arteries of the city s cardiac system here the Elbe steamers arrive and depart here consert the scalaring population and are found the arencies of all kinds good and bad which minister to its needs and pleasures. From the S Pauli quas in summer time a constant stream of pleasureseekers, passing to and fro witnesses to the allurement of the many water excursions for which enterprising steamlaunch owners eater One of the most popular has always been the delightful sall down the river to Blankenese, which is charmingly situated on the right bank.

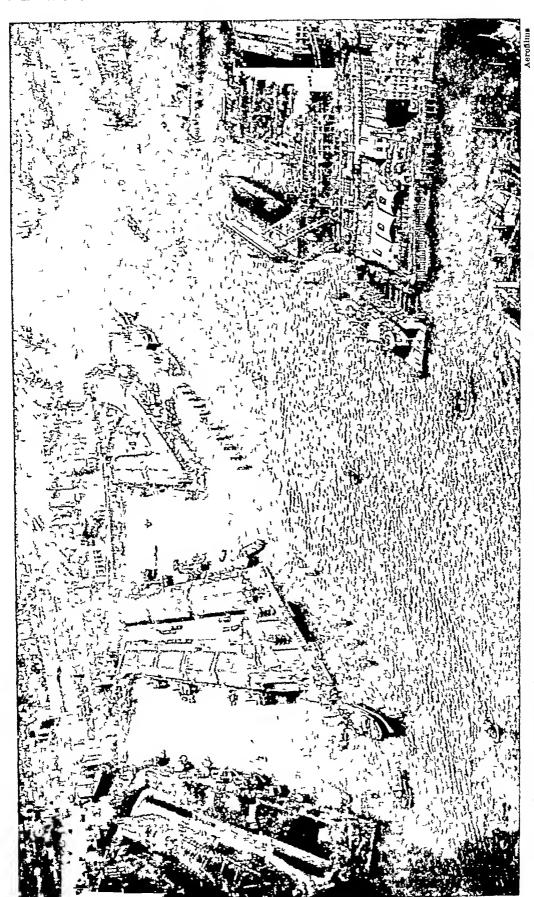
Mention has been made of the river Alster This tributory small though it is, plays an important part in the life of Hamburg In olden times the Alster simply emptical its waters into the main

stream In the eastern part of the city but he means of dams and locks the lower reach of the river has been converted into two handsome sheets of water the larger called Outer Alster and the smaller Inner Alster The lakes are separated by the fine and substantial Lombards Bridge which carries the Hamburg Altona line of railway a wide carriage road and a footpath for passenger traffic. The banks of the Inner Alster, which used to be a fashionable residential quarter are now given over to hotels banks and offices and Society has migrated to the Outer Alster which is lined by the villas of the well to do patrician and commercial families. Among the more select residential districts in this locality are Uhlenhorst Harvestehude and Eppen dorf. Nevertheless the three sides of the Inner Alster the Old Jungfern stleg the Alsterdamm and the New Junglemstieg continue to be favourite promenades as of old.



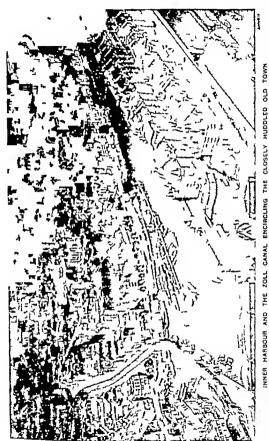
NEW ELBE BRIDGE ABOVE HAMBURG'S FREE HARBOUR

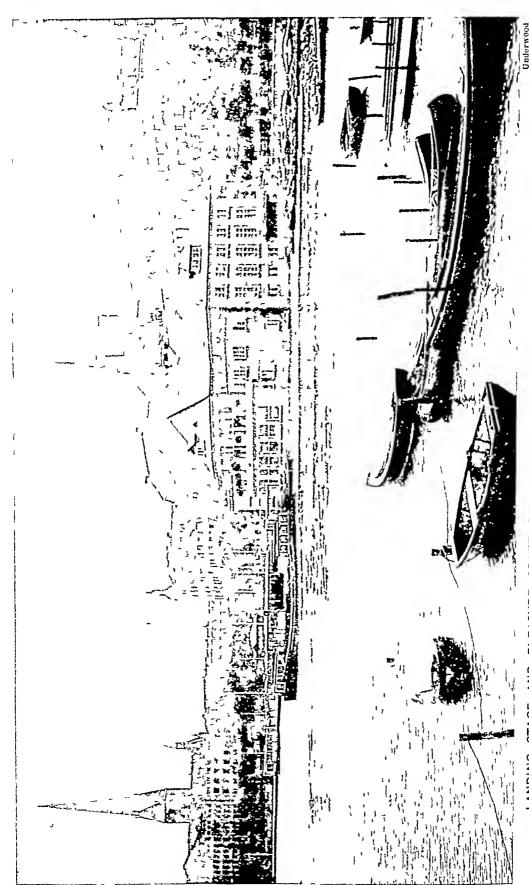
About a50 yards cent of the triple arched from railway bridge, which is just whible in the photograph, is this magnificant bridge, completed in 885 for whileles and foot partnergers. Hamburg has very well developed system of communication, for busides the matterpoint multiway them is an excellent service of electric trains to the adjacent suborbs and steamboats ply up and down the rever



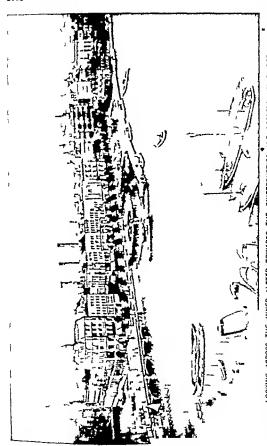
On the Libe is an enormous extent of docks, shipp ards, huge granaries and emigrant sheds, the greater part of which forms the Irce Harbour while ship building is the chief for transit trade. Hamburg handles a large proportion of the exports and imports not only of Germany but of Central Europe, while ship building is the chief industry and spirits, beer cigars chemicals and furniture are amongst the articles produced. A tunnel which passes under the river giving access to the districts THE BANKS OF THE DOCKS AND QUAYS LINING

2101 HAMBURG





Hamburg has an Old Town and a New Town, formerly divided by the river Alster which has been closed to form two lakes, the Inner and the Outer Alster, separated by the Lombards Bridge and the remains of old fortifications. The Inner Alster is used chiefly for pleasure, small steamers, plying regularly up and down, and is bounded by quays planted with trees and flanked with palatial hotels, business houses and private dwellings. The banks of the Outer Alster are sprinkled with country houses, gardens and parks, one of the favourite points being the Uhlenhorst. HAMBURG'S STAGE AND PLEASURE CRAFT ON THE INNER ALSTER, LANDING



The effect of the junction of the Alster with the Elbe is the formation within the centre of the city of a number of canals and inlets known as "fleets" (cf Fleet Street in London), reminding one of Rotterdam and other Dutch towns These canals are connected with the main river by means of locks, so that goods can be conveyed to and from the warehouses, often rising to a great height, which line their banks

# Muddy "Fleets" in Flood

Many of the oldest and also most dilapidated houses in the city are found alongside of the "fleets," and in them the poorer classes are herded together amid very unhomelike conditions. At times some of the "fleets" can be crossed dry-shod, though not mud-free, but when the tide runs high up the estuary they are flooded far above the normal level, with the result that the low-lying portions of the adjacent buildings are inundated

It is customary for three shots to be fired from the Marine Observatory on the high-level road overlooking the river, known as the Stintfang, as soon as high tide is telegraphed from Cuxhaven, by way of warning to all and sundry Should the incoming waters threaten danger, the signal is repeated for the special benefit of the "fleet" population, on which the menaced inhabitants make a hurried exit from their dwellings, removing as much of their goods as possible to safer quarters That the sanitary state of these buildings leaves much to be desired will readily be understood, though Hamburg would lose much of its charm for the artist and archaeologist if these odd corners were absent

## The Slums, Inside and Out

The worst modern slums are the courts and wynds—euphemistically called "Terraces" or "Passages"—of the Old Town, where back-to-back houses in all stages of dilapidation abound They, too, look picturesque enough from without, but the conditions within often defy description

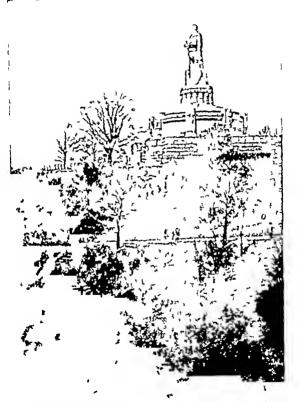
Hamburg people in the past had plenty of money, and both collectively and individually they were not slow to invest it in the creation of a pleasant environment and of amenities of many kinds which may prove not the least potent sources of solace in their present Proverbial phrase unhappy plight speaks unkindly of the "Hamburg money-bags" Money-making has certainly been Hamburg's most profitable industry, and money-pride and the spirit have been conplutocratic spicuous in the past

### Devastation of the Great Fire

Yet a generous sacrifice for the public good has always distinguished the Hamburgers, and their public buildings Some of the oldest alone prove it of these were destroyed by the great fire of 1842, but they have many worthy Among the finest are the successors new town-hall, an edifice of the sort which delighted the ex-Emperor's eye and heart, since its façade is ornamented with twenty statues in copper of German emperors and its 360-foothigh tower is crowned by the imperial eagle, the German Playhouse, the Public Art Gallery, the Museum of Natural History, the huge Central Railway Station, and the Exchange, all near the Inner Alster, while the Museum of Industrial Art and the Courts of Justice, civil and criminal, are not far away The more notable commercial buildings include the central offices of the Hamburg-American Shipping Com pany and the Imperial Bank, though, as in other German towns, most of the company banks are also quartered in There are artistic imposing blocks ornamental fountains in several of the public squares, but they are of quite modern date

The city is not specially rich in ecclesiastical buildings. The oldest and most interesting of the churches is that of S. James, of which the earliest surviving parts date from the fourteenth century, though the tower is not more than a century old. Other early churches

2105 HAMBURG



STRIKING MONUMENT OF PRINCE BIBMARCK ON THE MUEHLBERG in the sulardy of 5 Paul rices this statue by Lefterer and Schandt, an enormous Serve of the chancefor Dimarck on predestal embellished with relief. 5 1 ul. in solver adjoining illamburg on the west, in principally irreprented by sailors and below the Sallors Homes are the landing tays for the stemment to Cambrian and the summer reversit of the North hor and the sail tays for the stemment of Cambrian and the summer reversit of the North hor and the sail of the Sallors Homes and the sail of the North hor that the sail of the North hor that the sail of the North hor that the North hor that the sail of the North hor that the North hor the North hor that the North hor that the North hor that the North hor that the North hor the North hor

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SPLENDID SHOPS AND OFFICES IN THE MOENCKEBERG STRASSE

From the Rathausplatz the Mönckeberg Strasse runs almost due east to the Central Station and on its north side is the Barkhof, a group of offices built in 1909, in one of the inner courts of which is a statue of Heine by Hasselrus — The rather ornate Rathaus, in the Rathausplatz, is an imposing building in the German Renaissance style, surmounted by a tower 370 feet high

of note, like that of S Peter's, were destroyed or suffered by the great fire, though some of them have been replaced S Nicholas is one of the rebuilt churches, and it is noteworthy that it was designed, in the Early Gothic style characteristic of most of the Hamburg churches, by Sir Gilbert Scott, the nineteenth century architect

The existing church of S Catherine's for the most part dates only from the seventeenth century, that of S Michael's from the eighteenth, and the present S Peter's Church was built in the middle of last century Characteristic of the larger Hamburg churches are their

towers, several of which are between 400 and 500 feet high, the highest being that of S Nicholas in the very heart of the Old Town

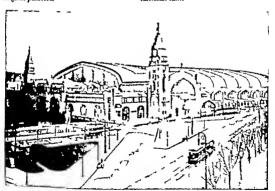
The traffic to and fro over Hamburg's many waterways of all sorts and sizes is facilitated by more than a hundred bridges, and some of these are fine and even monumental structures. The largest and most pretentious is the Lombards Bridge, whose northern entrance, surmounted by towers and castellated masonry, is an imposing piece of architecture, though the emphasis given to mass at the expense of form may not please a fastidious taste. Other notable

bridges are the Kersten Miles Bridge decorated with statues of promunent Hamburg scafarers and the Corn House, Bridge near S. Catherine's church

For a town of such a pronounced commercial character Hamburg can claim exceptional literary artistic and scientific associations. Home and Brahms were born there and Lessing and Klopstock lived for a time there Les ing doing much for the advancement of the local stage. The Public Art Gallery has already been mentioned Under the directorship of the enthuslast 1 icht wark this institution specialised in Hamburg art and paintings of which Hamburg was the subject, and a unique collection of works of the kind has been got together. A specially interesting part of the collection is formed in the groups of paintings by Bertram of the fourteenth and Franke of the fifteenth century but there are also many work of no little di finction la various Dutch and modern German and English painters.

There are many public monuments of sorts though here Hamburg cannot by ward to excel It has no such old and beautiful work of art as adorn the smans of some south German towns and its statues (of Schiller, Brahms and other) and the in satable. Kaiser Wilh Im monument at uninstatute Of the guantse 18 march tathe over looking the Lil all that need be said is that a Miraham Lincoln once, remarked these who lik that sort of thing will find it in title sort of thing they will lik

The city has many scientific instiintrine Be also the Natural History Museum ther are botanical and ethnolorical mus nms an observators botanical and a whoestal garden, and museum of pr histori and Hamburg antiquities. Ther used to be several intro-tine scentific collections in privat han l like the Godeffron museum and the roclogical collections of the Hampi rks that achieved international fame



HUGE CENTRAL RAILWAY STATION IN THE CITY OF HAMBURG

Headery Craired Sattion, by the Stern or h strated between the Noticetor Station and the Lomberth Benjage, the principle of the Station and the Lomberth Benjage, the principle of the Station and the Lomberth Benjage, one of the first members of the Harsesten Langue, is till Tree C by and the capital of bills state within the German Republic, besides being one of the greatest ports in the world.

Hamburg had For many years cherished the ambition to have a university of its own, like so many other old German towns far smaller and less wealthy It already possessed, besides its gymnasia and other higher schools, a colonial institute which is accommodated in the Lecture Building, physical and chemical laboratories and good public libraries Now the existing centres of learning, so far as suitable, have been incorporated in a fullyorganized teaching university, which began its career under very favourable auspices before the economic collapse of Germany occurred after the disorganization that followed hard on the end of the Great War

### Investments in Public Health

Hamburg has also invested money freely in public health, and its hospitals do it infinite credit. Of these the great institution at Eppendorf is famous throughout the whole country. The city graveyards having long ago been closed, it also led the way in Germany in providing municipal cemeteries. The beautiful park-like cemetery at Ohlsdorf is as unlike the typical burial ground as possible and has been imitated by many other large municipalities.

The dominant spirit of Hamburg is the spirit of work and enterprise. No one would speak of its population as pleasure-loving in the sense and measure in which the phrase would faithfully apply, for example, to the Rhinelanders. Being of Low German stock, its people are of a somewhat heavy and phlegmatic temperament, they are inclined to be stiff and solemn in manner, and they may almost be said, without exaggeration, to take their pleasures sadly

# Two Wet Days for One Dry

A predominantly cool temperature and an exceptionally large proportion of rainy days—two out of three is probably under the proportion—do not favour outdoor enjoyment, though regattas, sailing on the river and boating on the Alster Lakes have plenty

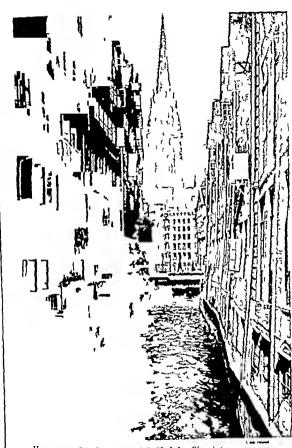
of devotees in summer Hamburgers are, however, a sociable people, as is shown by the fact that the number of clubs is very large

The Hamburgers are devoted theatregoers, herein sharing the universal characteristic of Germans, who in late years have kept up their theatres and opera houses when many other wonted sources of edification and pleasure had to be abandoned There are at least a dozen theatres of all kinds, several accommodating nearly 2,000 persons The oldest is the Municipal Theatre, which gives equal prominence to drama and opera, while the more modern and imposing German Playhouse specialises in drama and comedy The "variety" and "revue" theatres are also as conspicuous here as elsewhere The people are not less musical than German people generally, and the town has several large and handsome concert halls and excellent choral and orchestral societies, not to mention a good permanent municipal orchestra

With all its strong individuality, Hamburg in the past betrayed a marked fondness for England and English customs English words and phrases have always figured prominently in the German vocabulary of trade and shipping, but Hamburg from time immemorial has adopted the English division of the working day (called by business men "English time")

## London Climate and English Games

With more dubious taste Hamburg has also appropriated the English climate, for it has an unhappy reputation for fog, rawness and general clamminess during the colder half or three-quarters of the year, with the result that the visitor from London experiences relief and a certain malicious gratitude when he finds that his native city has no monopoly of smoke and grime Finally, in the winter months football is played in English fashion and in accordance with English rules, and Hamburg's rising youth is very proud of the fact.

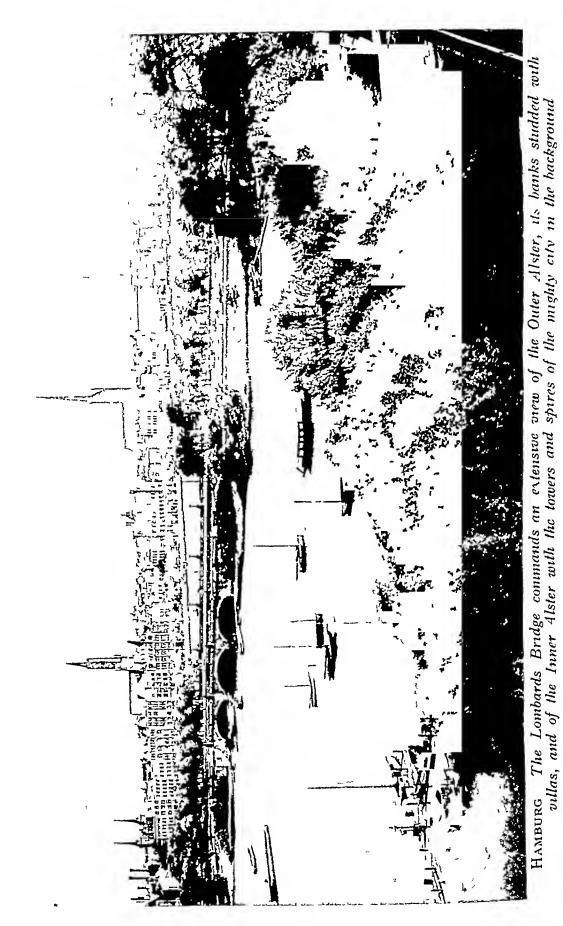


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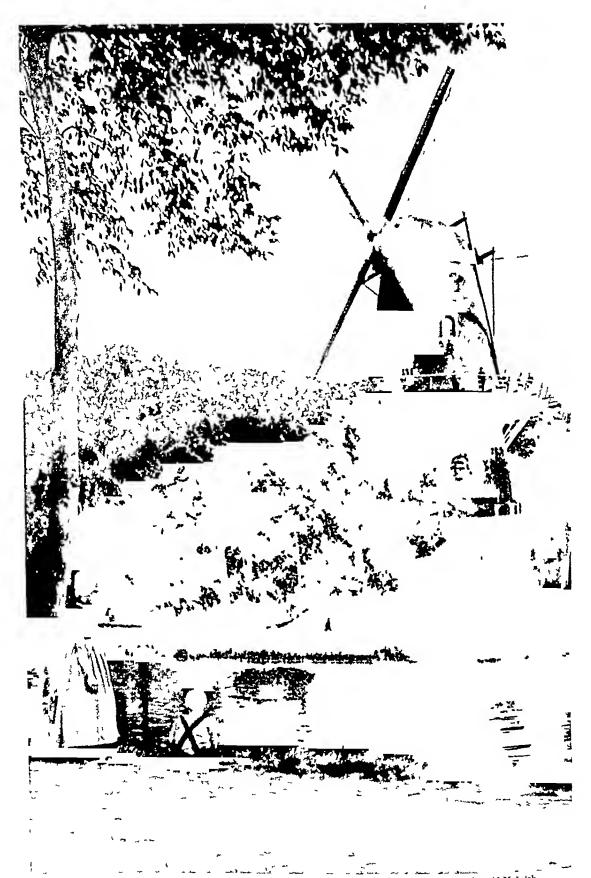
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HAMBURG The lofty spire of S. Nicholas Church towers over one of the streams that flow through the esty after the fashion of 1 cinco





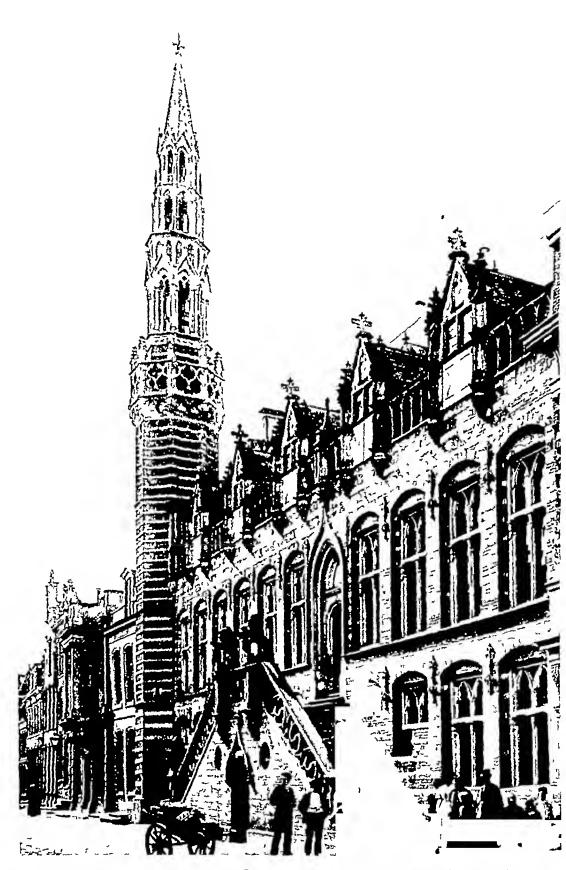
HOLLAND Still trees and a wooden bridge are nurrared in the tranquil water by the village of Brock in the Holle lown is noted for the almost exaggerated by the surfect of it, appearance



HOLLAND This giant windmill grinds the corn brought from the farms round Middelburg along the gently flowing canal at its foot



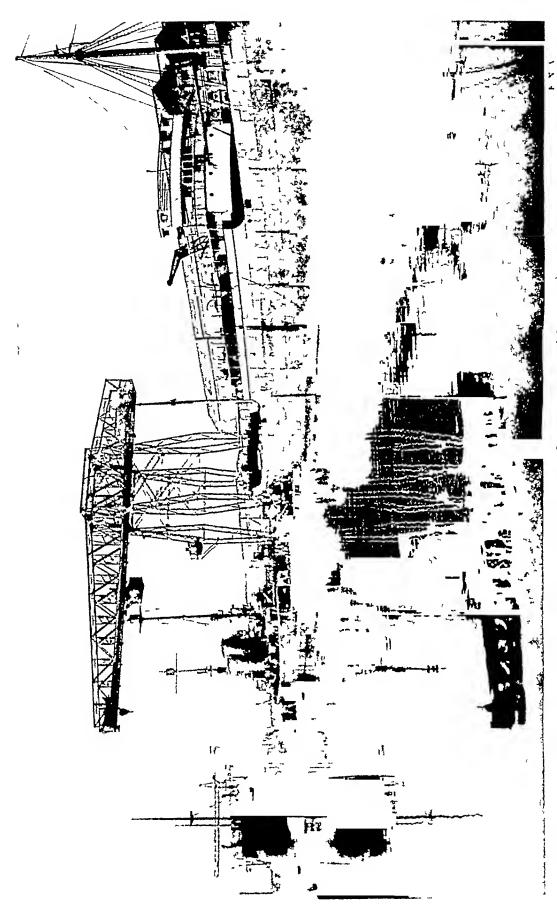
HOLLAND The handsome tower of the Goline Groote Kerk at Dordrecht makes a conspicuous landmark in this riverside town
2113



HOLLAND In the Lange Straat, the chief street of the historic town of Alkmaar, rises the Stadhuis, a Late Gothic structure of 1507



HOLLAND On market day the Place left re the Weigh Hou catt Alkmaar is full of this es and the guily partited earls of the peasantry 2115



Flushing, the birthplace of the famous Dutch naval hero Admiral de Ruyter, is a popular summer resort in spite of the great docks and quays built to turn it into a large conniercial port Hoi land

# The Country at War with the Sea

# by Picter Geyl

Professor of Dutch in London University

HOLLAND or the kin-dern of the Actherland to provide country is correct title country in correct title country. One might walk from Germany into the portheat tern part of Holland, or from lakening into one of its senthern provinces without each a from the title country without each at the country without country without the winter test a bringing that one had crossed a frontier if it were not for the winte border mark or the Customs offerers one would meet

For Holland has been cut out of the later Hain that her along the North Sea and the Balue In the accident of In torical development. I difficulty the Netherlands is a fragment the negthern half of the Burgundian tate which was created in the filternth and ix teenth century-s out of a numb r of uncemerted furtal principalities hose is attached to the German Languer It a lack I in beyondence towards the end of the extrently century when it threw off the dominion of the king of Sprin, the acressor to the Burgundian dukes. but at the same time the Dutch prople were separated from their coracials and co-lingual, the Plenlings of the present kingdom of Belgium line of demarcation between them was traced by the sword in the course of the war of independence and It was fixed in 1048 at the peace of Munster

#### A Country of P tearles

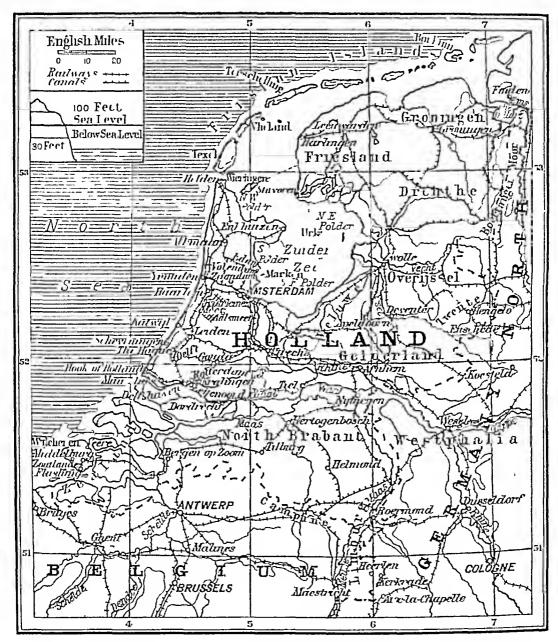
When, after the brief reunion in the kingdom of the Netherlands, the separation of 1830-39 occurred, a new arrangement was made only for Limburg Maestricht which had been Dutch since 1632 and which has been an enclave all the time of the "ancien regime was connected with the main portion of Dutch territory"

Let although the demarcation from its nuclil ages a put indicated by accidents of the all list in I does preserve a character of it min-It is the presence of a number of my rs, the lower courses of the Klune of the Maas flench Meus) and of the Schelde all of which run into the sea in Dutch territors, which determines the country from the a serupher's point of view And all thee nivers with their tribu tares and affinent forming numerous Man I an I alt as well as a consider alde to tch of sea border give the country its typical a part and contri Inte so much to di tinguish it altogether from it in schloors

### Land Below Seaderel

The Netherland the name meaning low country -1 remarkable among the countries of the world because of its relatively recent, and in parts one might almost say it artificial formation the inhabitants had not taken special precautions again t the inroads of the wa not le than 38 per cout of the total surface of the country would be flooded with absolute regularity twice every 24 hours. The remaining part of the country is only a few feet above the sealevel and only 2 per cent, of the total surface is higher than 150 feet lughest spot is in the province of Limburg near the German and Belgian frontiers. It is as much as 966 feet above the level of the sea

It is not difficult to realize that in a country where more than one-third of the total land surface whose area is 12 550 square miles, is kept immune from inundation only by constant effort, after having been wrested in the begun ming from the sea the population has received a strong impress from this



ARTERIAL CANALS AND RIVERS IN HOLLAND'S WATER-BOUND PLAIN

struggle that has lasted centuries And the country itself bears the indelible mark of its origin Walk anywhere in the province of Zealand, which, except for the exiguous zone of sand-dunes along the sea, belongs altogether to that 38 per cent which is perpetually threatened by inundation, and you will be struck by the remarkable aspect of the landscape Broad earthen walls, scarcely more than a few feet high, sometimes surmounted by a road, low willows on their slopes and a broad

ditch at the base on either side, divide into unequal patches an absolutely flat country that stretches as far as the eye can reach. Each such patch, or "polder," was covered by the sea at one time. Each earthen wall, or dyke, was once the outer rampart against the sea. Every tide brought in a thin layer of alluvial soil until, along the dyke, a patch had formed, covered only by high tide, so that some weeds began to grow on it. Then a new dyke was laid round it, with much labour and effort

Special arrangements were mail for collecting the rain water which was let out into the sea at eld to! Linseed was the only produce cultivated on the newly-acquired wal, until the excess fealt had been drawn from it. And finally where ten wars 1 force it river Schell or the North Sea was matter a few farmers settled down and grew their crops of 1 states in an level or fits.

But the inner disk was not remen. I first ad of being a "watcher in hall now become a "Teiper". And onetimes it was rudely awakened from itlety when a Terich was made in itouter dyke and the was destinated in one night the work of years of reclaim to a

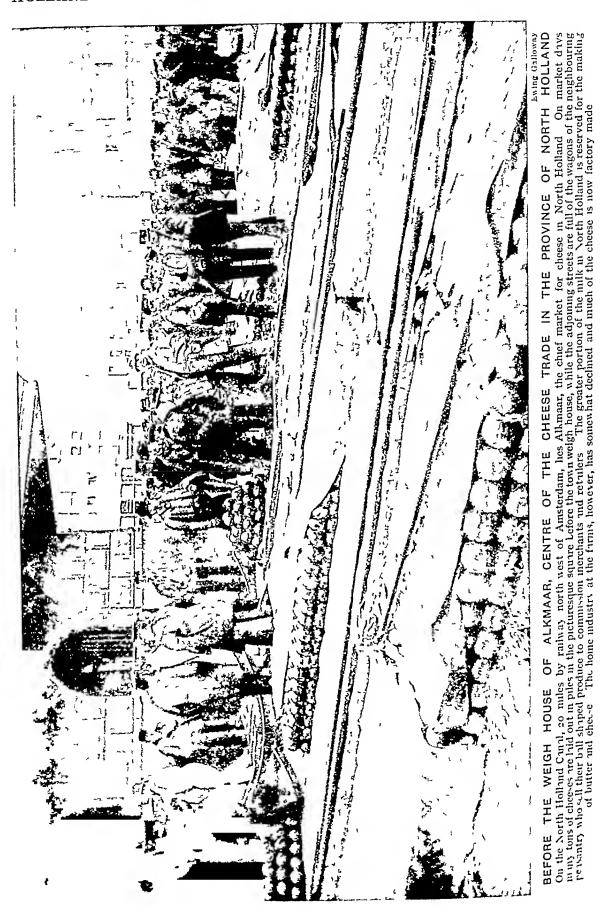
In other part of the country it same impersion of unlimited flatters to created, but in a lifter in marrier A coloral circular canal, with a dik in life it surround a fract of territory that is considerably lower than the in roundin country. They are no irregular

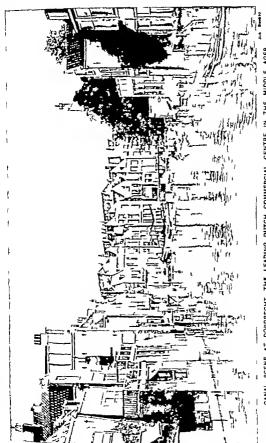
pat hes separated by dykes as in the piller robe. Here the eye is truck by a mone of e. Arm tivel arrangement of canal with a metwork of tributaries practiating every corner of the land by verification in the human both. These territors we real every dwith water. I starw a thewater Alakes is to frivers up to the a valid so had to be empte. His promps with this windmill in the corne of hilbert as process ruining, into y it.

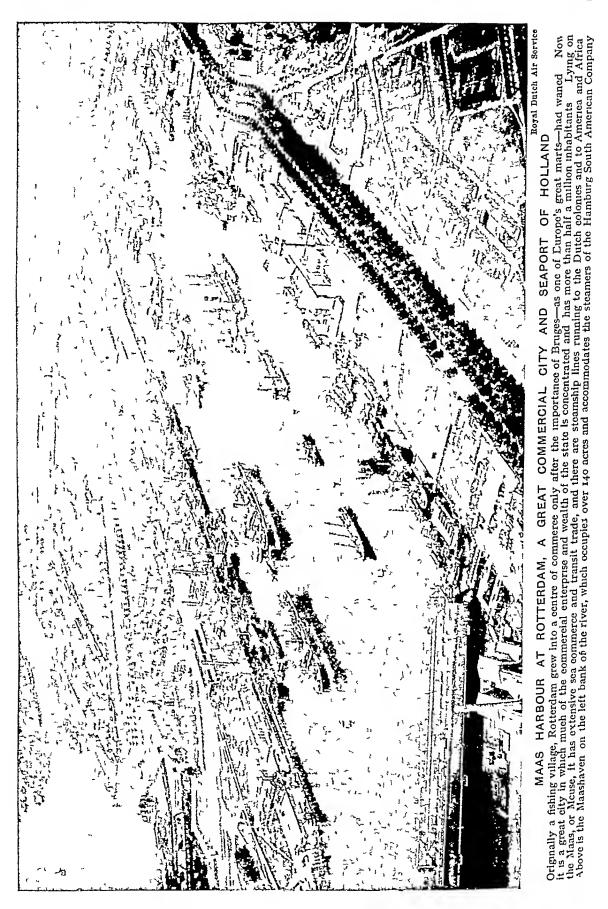
The remain a full warking in order sixes the miles water into the encular canal Ofte ill sir dese last un or lectric perer. But many of the II windmill last 1 in kit and form one of the mit hara tin tic flatores of the Databland returned takes are all i M teltlemdat hakt maleru n the wantenth century The most famou i the Haarl-mer Mer in the province of North Holland . It was rechamed from 1518 to 185. It area i



EVERYDAY LIFE ON THE DYKE AT VOLENDAM ON THE ZUIDER ZEE. The in the little harbors if I clear are these modes of flings button the dyke, belind which has the quantitions set. If yellow the less too these in Market will saw which is studied a fire miles would only clear the market will be small flishing community whose mean is one some of the widest breeches and largest absolute in Joldand m.







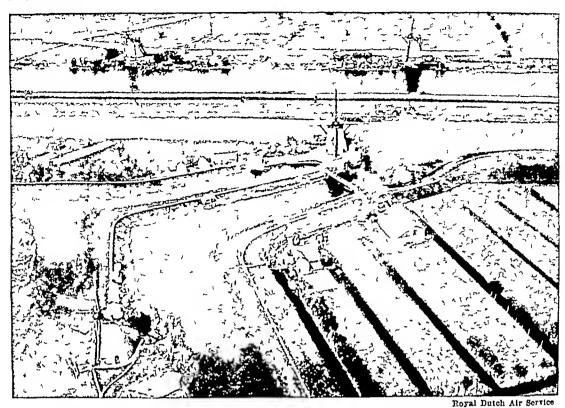


OLD-FASHIONED STREET IN THE OLD-FASHIONED TOWN OF FLUSHING Flushing, or Vlissingen as it is in Dutch lies on the south coast of the island of Walcheren at the mouth of the Schelde It is the seaport of Holland nearest to England and a line of steamers plies position ensures it considerable prestige, while as a sea-bathing resort it enjoys some renown

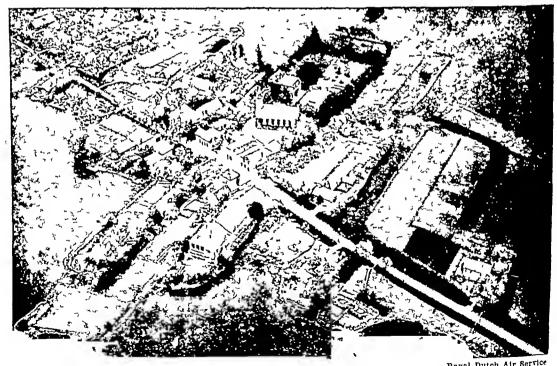


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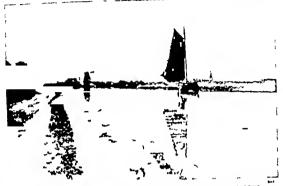


WINDMILLS AND FARMHOUSES ON THE CANALS NEAR SCHIEDAM
By far the greater part of the Netherlands is polderland, a polder being an area surrounded by
dykes, the water within which is kept at the requisite level by means of pumping directed by a
department called the Waterstaat Schiedam lies on the Schie, a tributary of the Maas, about
three miles west of Rotterdam and is celebrated for the distilling of gin, "Hollands" and "Geneva"

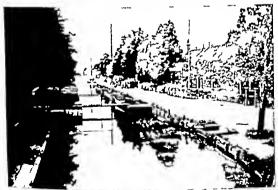


DYKE ROAD TRAVERSING THE WATERY LOWLANDS OF HOLLAND

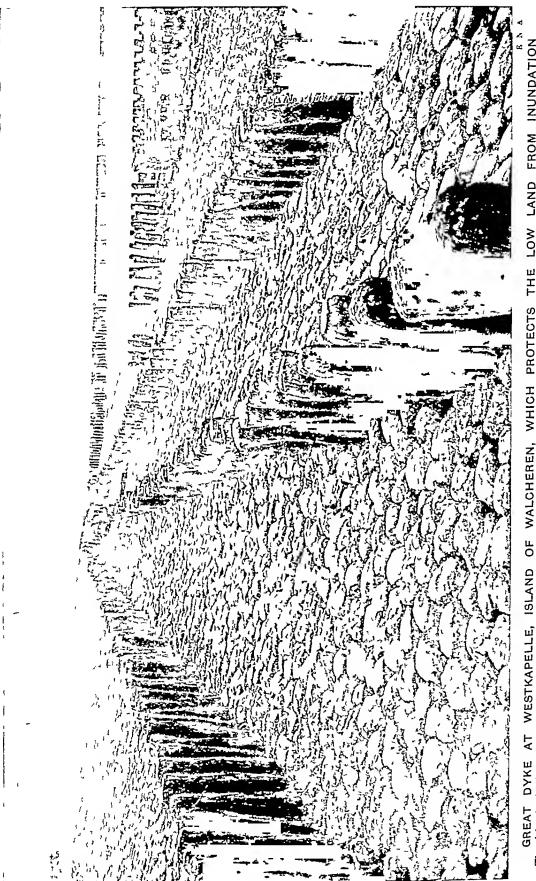
The country of Holland is chiefly composed of flat, low-lying land, little of which exceeds 16 feet above sea level, while many tracts lie below In their long struggle with sea and river floods the Hollanders have become wonderfully adept in building defensive earthworks. Here is seen an ingeniously constructed dyke road flanked by cultivated land reclaimed from the surrounding water



IN THE LAND OF WINDMILLS, WATERWAYS AND WIDE HORIZONS
The inversion of the body of the water and the conserted with act of the a versible set of the fact in 1st in 1st inversion (no. 1). Si ceits of the body by Windmids are freighed chief about the oranity. I have that per with the body by Windmids are freighed chief about the oranity. I become upon by the first in the between temple by selected usely, if it is the very interest mode as a fill of harms.



LANDWAY AND WATERWAY OF A CONVENTIONAL DUTCH VILLAGE of the meet the causal form the main arteries of the tional life of liftland and hat it be constitutely kept mader contributed improved. Through most of the town and singles a causal winds, seemed to the constitute of the contributed in the contributed in the contributed of the contributed in the contributed of the contributed of the contributed in the contributed of the contributed in the contributed of the contributed in the contributed in the contributed of the contributed in the cont



The island of Walchcren, in the province of Zealand, lies in the Schelde estuary and is some 13 miles long and 10 miles broad. Its low-lying surface, on which cereals are grown with success and cattle are bred in large numbers, is protected from the encroachments of the sea by dykes. The great dyke at Westkapelle is considered one of the faces things of its kind in the world, innumerable stout wooden piles prevent the large stones from shifting and although the dyke is so solidly constructed as to appear proof against all storms yet time and again it has to be repaired FROM INUNDATION LAND Low THE

are a right well worth seeing Tourists who cross the North Sea In April find their trouble will rewarded when they see the rich and varied colours stretching over the flat country in an unbroken theet as far as the eye can reach

The larger part of Holland's surface is of recent formation. Only in the nouth of Limburg, and in a few parts of the eastern provinces of Gelderland and Ovenjssel do the older strata reach the surface.

In Limburg there are veins of coal which are part of the coal fields casting in the Belgan Campine (k-mpen) and in the German Westphalian area. The exploitable coal area of Holland is estimated to contain over 5000 million tons. There is rock salt in some parts of the country and in the couth of Limburg there are child formatteen.

### lists Reserves of Coal

The greatest depth from which coal is extracted in Holland is 3 600 feet. There is however a considerable reserve between 3 600 and 4 500 feet.

When the coal-fields of south Limburg, which are the only one from which coal is extracted, are in full exploitation they will produce about twenty million tons a year. At present Holland consumes only about half this amount ver herkrade coal is found almost on the surface of the earth, the field then sloping down towards the north sloping down towards the north principal mindre areas.

Where the coal is situated at a relatively considerable depth great obstacles had to be surmounted before it could be reached. It was very requestity found to be covered by water which had first to be frozen before the pit shaft could be sunk into it. Part of the coal-mines, one may note, is exploited by the state.

About 35 per cent of Hollands was carners are engaged in Industry 27 per cent in agriculture and 20 per cent in tracks and transport Faking an an important source of income for the population. Over 27 000

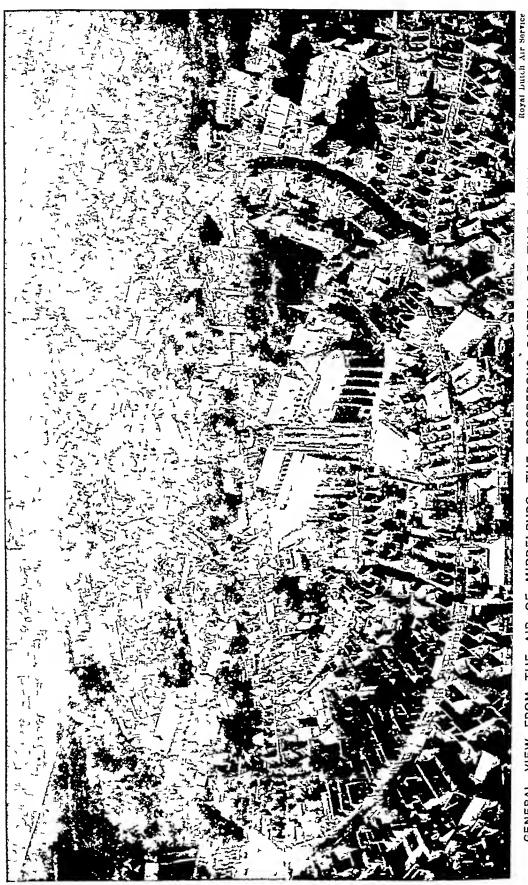
people are exclusively engaged in fishing while the number of those who increase their wages by giving part of thur time to this juriout with all those who by making alls, nots ropes, or by curing fi h etc., live indirectly by it is also sers considerable. The position of Holland by the shore of the North Sea the presence of a large gulf—the Zulder Zex—and of numerous rivers and stretches of fresh water have naturally created a large fi lung population.

#### Crisis in the Pishing Industry

Over 6 000 Jups and Joats are used, 30 of them teamers and as many driven by motor power. We can do tinguish three Und of fidure Safe bare includes all fishing outside territorial waters, and is mainly concurred with catching herring in drift mets in the North wa must the Scottish and English coa is and in the Lingh h Channel More than one half of the fishing population comes under this head. Dutch betting is considered superior to that caught by other nation because it i only on board Dutch hips that berring is salted Immediately on being caught. When landed the fills is packed very tightly in barrels and exported Before the Great War Germany was the main consumer of Dutch berring but the financial atuation in that country has almost closed it as a market, and the result has been a serious crius in the sea fishing industry United States Belgium and Poland came immediately after Germany and are still important consumers of salted and emoked herring. Fresh fish is also landed, and is consumed in the country itself. The principal centres for sea fishing are I muiden. Vlaardingen. Maassluls, Scheveningen, and Katwijk. The government controls the quality of exported fish, and guarantees it by marking the receptacles.

### Coest t and Freshwater Fisheries

Coastal fishing operates in territorial waters, in the Zuider Zee and in the river mouths. The principal catches are a small kind of herring anchovy HOLLAND 2130



y of Flushing The older part of the town is surrounded by a ring Protestant Nieuwe Kerk or New Church in the Groenmarkt, with a resuttful tower 280 feet high rebuilt in 1713-18 and possessing a fine carillon. The famous old Stadhuis or town hall, in Gothie style, with a 180 foot tower, latin. from the beauting of the sixteenth century, is seen on the left of the photograph. Its highly ornate facile flanking the north east side of the market squire PROSPEROUS CAPITAL Middelburg lies almost in the centre of the Island of Walcheren four miles north north east by railway of Flushing

2131 HOLLAND

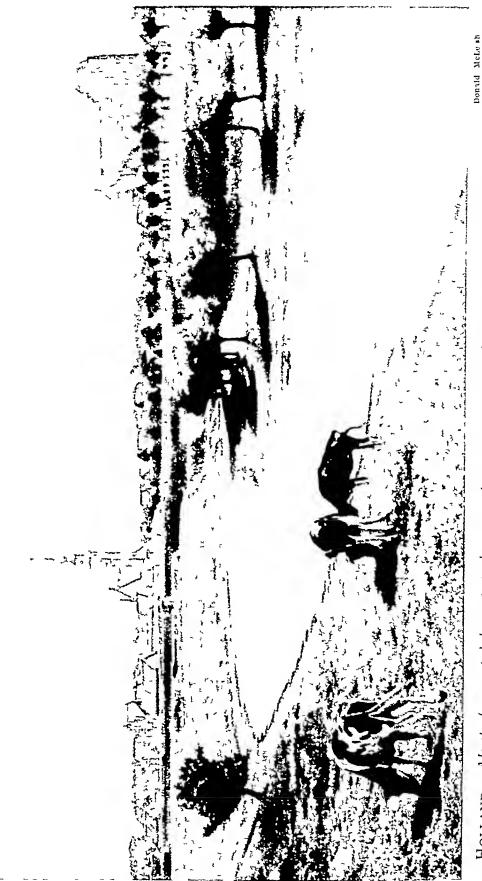


yng in fat comby fro ned a half make from the Korth Schenemaren, the city of The Hape is pleavably half out a, the sparens tretts, My bores : skaphful sparen. For many contains an important centry of deplearacy the city has given 1 mans to several tre test and ha keng brea the re-lefer. Of the old Hall of the Angelts, the meeting plac taker pale of buildings enclosing an open space, on the east side of



n In ld carll Will llurg the capital f Z al and Dutch still worn with piede are a great altraction for the version HOLLAND co lum 2133

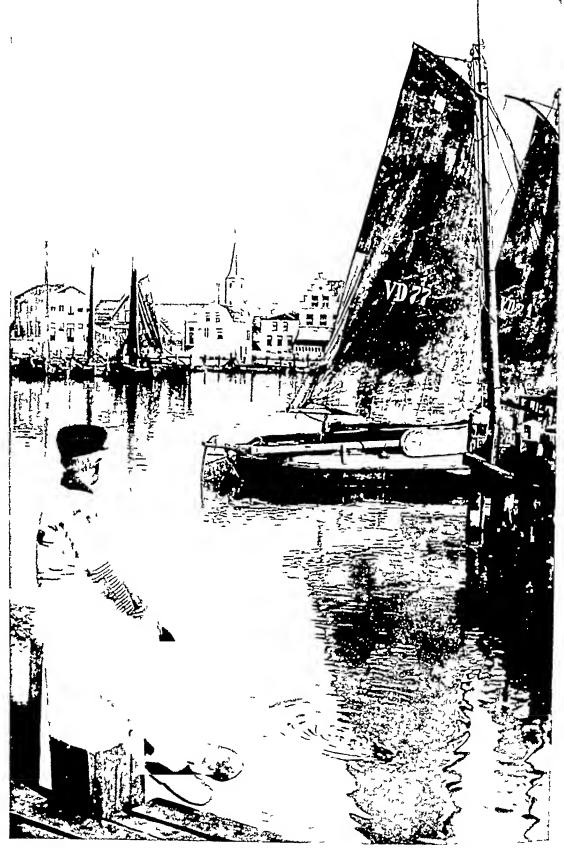
213



Holland Much frequented by artists because of its numerous medieval treasmes, Veem, one of the anamicst of Dutch "decayed cities," hes on the north coast of the island of II alcheren some three miles from Middelbing



then Inghim the HOLLAND The small harbonn f th fi hing i I mid f I rk milt the tall mark. I fishing mark tur lik I milt t



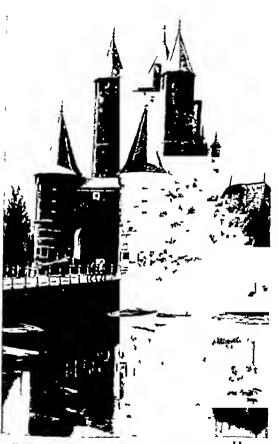
Hoiland A fascinating spot on the Zuider Zee, the village of Volendam houses a thinning but conservative Dutch fishing community



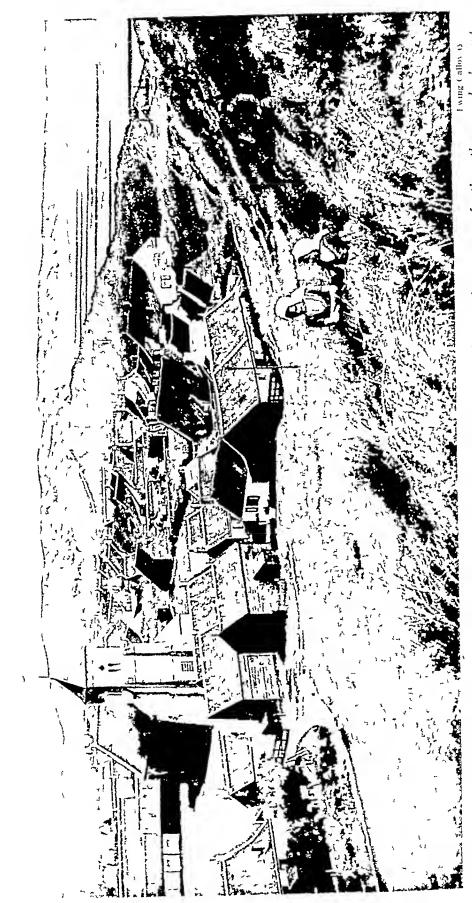
Holly D. The furtienth entury eath draft twee 338 feet high sours from the above Ulricht's old fe in ned dwellings and rat rears



Holland In the pleasantly wooded district around Arnhem Middachter Trenue with its giant beeches is lovely at all seasons



HOLLAND The dignified many-towered Spaarnewouder or Amster dam Gate is the only survivor of the medieval town gates of Haarlem



HOLLAND Behind the village of Zoutlande, peopled by thirstly folk who raiely venture faither than a day's carl ride from home, an sandy dimes, nature's own protective carthworks against the unoads of the North Sea

receded into the background and cotton manufacture is the principal textile industry. The district of Twenthe in the castern province of Oversjeel specialises in cotton spinning, but cannot by any means supply the needs of the country which imports consideralle amounts of spin yarn from Creat Birtain. Cotton weaving is concentrated in the province of North Biralant

A very important occupation is the preparation of localstuffs. Flour is manufactured in some 4 clarge factories which employ over 2,000 hands. The produce is marketed by means of agents and commercial travellers. Cake and becauts are exported to most buropean countries and to the colonies. Rice imported from the Dutch Ea t India is politically approached to the countries. Dairy produce is treated scientifically preserved milk and margarine being sold to most European countries. Dairy produce is treated scientifically preserved milk and margarine being sold to most European countries.

# Cooperative System of Sales

The excellence of Dutch agricultural produce the poses son of large colonies and the existence of numerous hipping bies have created the important industry of preserve manufacturing which works largely for export. Dutch spirits are world lamous.

Tolarco, especially in the form of ogars is manufactured from Dutch East Indian, Brazilian and Hungarian leaf

The metal industry is growing machinery, especially for shipping needs is made principally along the lower part of the river Maas. The raw material has to be imported. Dutch tiles and pottery deserve specal mention and the Gouda ware in particular possesses a reputation that has lasted for centuries.

The marketing of produce plays a large part m the occupation of the Dutch. It is highly organized. Cooperation, especially for the sale of dairy and garden produce, is well established, and the actions of fresh vegetables with mechanical time-saving devices, in which the contents of a burge are sold in three numbers time after the examination Dat

of only a few amples are a feature of Dutch economic againization

Binking, a prospering and well organized but payment by keque has not taken the place in fails life which it occupies in Lindan! Private bank till from he and how much if ten dency to become also glo in large joint took organization. It is not dealings in forcing exchanges in their result of Holland, periton it the rise roads of lidgitading nation are mithal fit to the private banker.

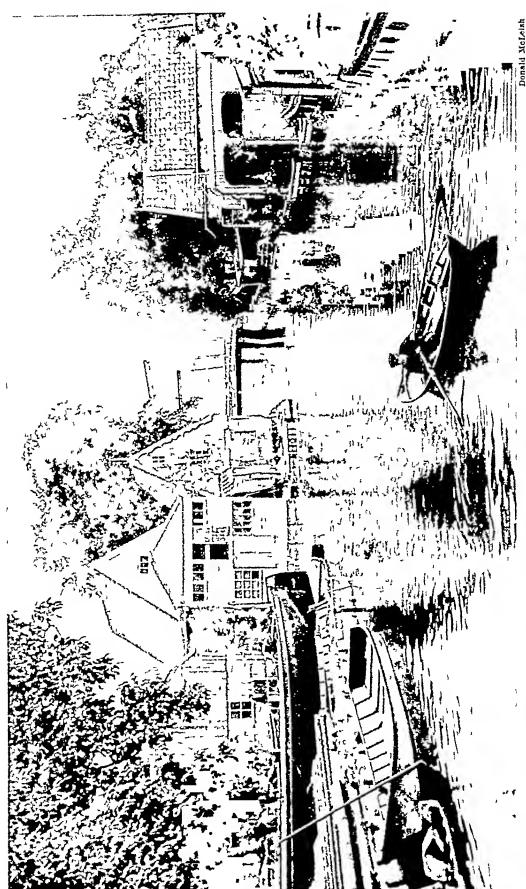
### Petermi Att lad f the St 1

Bureaucrace thin his trinky is welcome than more blishing, untrivials far more ubiquity than in the Lutted kingdom. The start filewest otters with pattern 1 in the rest and Dutch citizen to ubject to more resultation formalities, than an alien in Creat Britain. I vaminations of a searching nature as ure a high standard among Dutch and September 2018.

The Dutch are well educated. Compulsors, education, excellent modern method a profusion of schools produce excellent maternal from which the processional classes recruit themselves. The method and chicational services are of the first order and the social status of teachers especially secondary teachers, and of professional people in general is decidedly superior to that of their colleagues in England.

## Tre el by Bleyele nd Barg

There is a net of excellent roadways. Special care is given to the upkeep of cycling roads. Almost every Dutchman powerses his own becycle and the aspect of the big towns when offices and shops are about to open or are just closing strikes the visitor because of the dense stream of cyclists who pedal along to their work or back home. But road transport plays only a secondary part. The configuration of the soil has put at the disposal of the Dutch a unique system of canals and waterways, and all transport that is not of an urgent nature is doos by water. Barges, which are



I damwas in former times a fishing and trading port but its prosperity declined as did that of Stavoren and many other "dead cities of the Zuider Zee," but though reading is not reading, a menut Holland's decreed title it is still famous for its cheese and gives its name to the cheese of the whole district. Although cheese making is not to find a fine in the finest quality. Holland has two kinds of cheeses, the rolling ringed kind known to commerce as Dutch cheese and the flat blocked cheese chiefly made at Edam FISHING PORT AND NOW RENOWNED FOR THE EDAM,

increasingly driven by motor power transport garden produce to the big fowns. The cargo of sea going ships is partly unloaded into river boats which serve even for international transport—to the Rhineland and to Belgium. The large Rhine boats house several families, and special arrangements are made for educating the cludtern of this floating propulation of barrees.

There are in Holland two principal ranges with a length of 2 392 miles, and nearly 1 835 miles of transway lines. There are three main international rail way thoroughfares connected with slupping services from Lingland. Hook of Hollandand Rotterdam to Berlin Hook of Hollandand Rotterdam to Basel and Flushing to Basel and Vienna. The railway services are run by companies controlled by the state. Regular air services are run to London and to Berlin. Postal telephone and telegraph services are in the hands of the state.

#### Life in Town and Village

There is, in Holland no theoretical distinction between town and village. The whole country is divided into communes, "Gemeenten, all of which have the same institutions. The sense of communal life is highly developed. In the less fertile province of Drenthe where farms are farther away from each other there are places where the farmers live in the villages, while their farms are perhaps half a mile away.

The difference between farm buildings in various provinces is very striking, when one considers how relatively small the country is. Village life with Its publicity its sharing between all of the happenings that affect a single member is the most general condition of existence in Holland. But town life is the lot of by no means an inconsiderable number About 40 per cent of the whole population lives in the twenty four largest towns. Big cities are more or less concentrated in the north western part of the country Amster dam Rotterdam and The Hague are all within easy distance of one another

and are linked up by train and by good tramway systems.

Life in the large cities of Holland does not show a striking difference from English town life. But the aspect of the towns Is quite characteristic, and towns are the principal object of the tourists interest. Holland possesses a quantity of remarkably picturesque and charming old crities. Canals, planted with trees pass between rows of fine losues with be autiful gables.

## Archit of tw and Sa it time

Specimens of the fine domestic architecture of the sevent with century still abound. But modern architecture has also brought it contribution. Origin altiy and a lipitation of every building to the purpose for which it is errected are the work of the twentieth century architect who exercises his fancy and experimental spurit even in the design of worknen cottages. The old towns of Delft Gouda, Leiden, Alkmaar Dordricht Leeuwarken Deventer and Middelburg are all equally beautiful

The public organization of sanitation is not surpa sed by that of any European country. The public authorities give perpetual attention to health problems. A number of health committees propagate sound hyperic ideas. The law imposes very stringent regulations upon the building of houses, the management of factories and child labour Statistics of birth and mortality compare favourably with those of other countries.

and worth visiting

#### A Town of Civil Servents

No description of Holland could be complete without some reference to her chief cities of which Amsterdam the largest and the commercial capital has already been dealt with in this work.

Although The Hague (362,000 inhaliktants) is not called the capital of the country it is the seat of government and of the two houses of Parliament and the residence of the queen This fact has impressed upon The Hague its character of a town of civil servants,

HOLLAND 2144



MAIDENS OF MARKEN'S FISHING COMMUNITY Costume in Holland is decidedly in decay, but the people, numbering some 1,000 souls, of Marken island, which lies in the Zuider Zee ten miles to the north east of Amsterdam, cling loyally to their distinctive dress and their houses retain much that is peculiar

retired Indian officials and persons of independent means Since 1900 its population has increased by 75 per cent Industry in such a place is naturally of secondary importance. The Hague strikes the visitor as being more leisurely than Amsterdam or Rotterdam

# HOLLAND GEOGRAPHICAL SUMMARY

Natural Division A deltaic lowland, reclaimed from the sea, a region of natural and artificial watercourses, due to the set of the tides and currents of the North Sea and the alluvium—the offscourings of the Alps and the block mountains of Europe—brought by the Rhine, Maas and Schelde A definite section of the North European plain (Cf Belgium, Germany North)

Claude and Vegetation Climate is

Climate and Vegetation Climate is West European type, with slightly harsher winters, as indicated by the frozen canals, than SE England Except for small patches (cf the Boertanger Moor) there is little natural vegetation left, since cultivation of the soil is almost universal

Products Entirely the result of intensive cultivation (cf Belgium, Denmark) or the colonial trade, skill counts for more than mere physical labour Bulbs, beet-sugar, flax, fresh vegetables and fruit Herrings, anchovies and oysters Butter cheese, preserved milk,

The city is very beautiful. The Voorhout and the Vijverberg are among the finest avenues in any town in the world. The surrounding woods and garden cities are not less attractive. The Hague is the richest town in Holland. It is famous as the seat of the International Court of Justice.

Rotterdam (525,000 inhabitants) is the main harbour of Holland. Its principal hinterland is the Rheno-Westphalian industrial area. Food-stuffs and raw material are imported into that area, finished products and coal are exported. All these goods are transhipped at Rotterdam, and 60 per cent of the goods arriving are destined for transit

There are busy markets for cattle and agricultural produce. The town has excellent railway communications, and is linked up with the surrounding country by a tramway system. There are very important ship-building yards in the suburb of Feijenoord.

margarine Ships Diamonds, tobacco, coffee and colonial products

Communications Mainline railway traffic to the European capitals Excellent roads for cyclists and motorists Canals for barge traffic and for skaters in winter

Trade Transit trade from the countries of the Rhine valley Entrepot trade in colonial produce (Cf London) Dutch trade in the products of Holland and in the import of wheat and coal

Outlook Holland has been an object lesson to the world in the making of a prolific farm land from the waste lands which naturally line a lowland sea margin and also in the development of highly productive and scientific cultivation in a tropical land, the Dutch East Indies The land has become what it is because the Dutch have laboured to create its wealth, and past success prophesies future progress. The drainage of the Zuider Zee and the creation of vast stretches of new farm land will continue the object lesson.

# Golden Prairies of the Danubian Plain

# by Walter Jerrold

Author of The Danube etc

Tilf state of llungary as It was left after the transferences of territory following the Creat War probably occupied much the same tract of low lying country as that fir t overun by the Magyars when they reached Europe from the Ea t rather more than a thousand years ago.

It consists of a great part of that south-eastern European plain through which the Danube flows in the midpart of its course after passing through the mountain system of the Little Carpathians and before breaking its way through the great hazan defile and the Iron Gates, which separate the Transilvanian Alm on the north bank from the Hallans on the south. On this plain the warlike Vlagyars settled. though the state they created was greatly aggrandised later by expansion north and east to the Carpathian mountains, west to the Styrian foot hills and south to the Danube. It is now bounded on all four sides by territory that was once Hungarian but has been transferred to the states of Czechoslovakia, Rumama Serbia and Austria. The boundaries have come to be radal rather than physical.

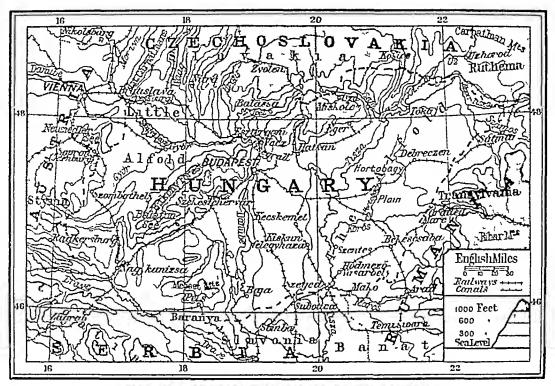
# Danger of Arbitrary Proutiers

The country roughly an oval the greatest length of which is Iron east to west is 30 typ square miles in eatent or slightly larger than Portugal it is watered by the Danube and some of its main tributaries flowing from the Carpathian mountains. So much of the great plain as remains under the Hunganan flag is inhabited almost wholly by Magyara, who form 83 per cent. of the entire population of the country which is done upon 8 000 000.

The main ranges of the Carpathians and the Transils mun Upshewell away to the north and south-cast and no longer affeed the national boundaries. To the north-calt the southern hore of the Neu redl r See and the right bank of the Danuba and for some distance outh west the lift bank of the Drave form natural boundaries, but for the rest the boun lartes may be described a arbitrary rather than natural. This one cathers from talks with the Macraes themselves and with people of the neighbouring tates that have profit d by the dismemberment of the old Austrian Empire will long prove a source of international irritation

## Shifting Sands of the Alf id

The Midd or great plain, he at an elevation of about 250 lect above sea level and a in the main a typical grassland on deep alluvial soil and sand with low sandhills in the north and numerous largoons diversifying in parts the prame-like expanse called puzztas, or heathlands. The most considerable river is the Tisza, which roughly bisects It There are few trees except where these have been planted about the towns and villages or where the acacia has been extensively cultivated with the object of binding the shifting sands of the north-east. That part of it which hes between the roughly parallel courses of the south-flowing stretch of the Danube and the Tisza and a large tract in the north-east of the country are especially broken by innumerable lagoons, some of them of considerable size. This tract between the rivers is sometimes spoken of as Kumama, but the Hungarians themselves give the name of Alfold to the whole expanse of



MAP OF HUNGARY'S GREAT LEVEL ACRES

the plain from the Danube to the mountains, though there is a slight but inappreciable rise in the interfluvial western portion of it

West of the Danube hes the hilher part of Hungary and the shallow Lake Balaton, about 250 square miles in area and 50 miles long, some 30 miles from the capital, with much marshland in its immediate neighbourhood, especially about its southern end Beyond the lake stretches the upland known as the Bakony Forest here and there does the country rise to hills of any height, as in the angle of the north-eastern bend of the Danube. the elevation nowhere being more than 2,000 feet above sea-level In the extreme north-west hes the larger part of the Little Alföld plain, the trans-Danubian portion of which is now part of the Czechoslovakian republic

It was as a pastoral and military people that the tribes pushed westward in the ninth century and settled upon the far-spreading Danubian plain, which had been part of the extensive Roman province of Pannoina. The great grassland afforded seemingly mexhaustible

pasturage for flocks and herds, and for the horses with the breeding of which the Magyar people came to be, and long remained, more especially associated In course of time, after Hungary came under Austrian rule, owing to the demands of the predominant partner a large part of the grassland of the Alföld came under arable cultivation

The breeding of horses, the grazing of flocks and herds gave way to the cultivation of corn until by the close of the nineteenth century the great plain was regarded as one of the granaries of Europe Its extensive stretches of wheat and maize form one of the most memorable impressions that we bring away with us from a journey across the Alfold, recalling to those who know something of Canada those vast graingolden tracts of the western prairies of In late summer the the Dominion Alfold may also show a golden harvest stretching far as the eye can see, while the parallel in winter also holds good, as for nearly three months the Hungarian plain may show one vast expanse of snow and the great rivers be frozen so that with the break up of the ice

there is a menace of devastating floods. The suitability of much of the land for their cultivation has made wheat and maize the outstanding crops of the country while tye and larley are also extensively grown and considerable areas are given over to cuts and potatoes.

Sugar beet is increasingly grown. In several parts of the country there are notable unequards, especially on the Upper Tisza where Tokaj has given its name to a long famous wine. Though much of the fertile plain has thus been brou lit under arable, cultivation, on extensive tracts of the puszta or wild gra sland large flocks and herds are still maintained, and thus is particularly true of the northeastern Hortology Plain. The well-mounted "cowbeys and the shepherds with their long coats of woolly florce and coloured jackets, are striking figures of the present

Hungary is now to a greater extent than ever an agricultural country the transference of territory having taken from it rich mining and extensive forest regions of the Carnathian and other of its old border-country districts which hade fair to make it increasingly industrial. The only mining mdustry left is that of coal mainly brown coal of poor quality the main deposits of which are in the upland country to the west of Budanest in the Bakons Forest area district remaining in which bituminous coal is worked is in the neighbourhood of Pies in the angle formed by the Danube and the Drave approaching their conflicts. and the does not at present will utherent out-coal for Hungary wn maumements though it is haped by increased production to lessen considerably the country's dependence upon interted upplies

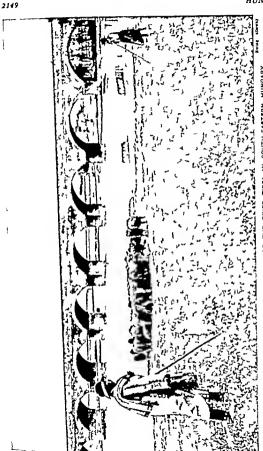
Mthough coal mining is Hungary a second lar, at industry it comes a long way after the fir it in importance. The out translan, incupation of the people is agriculture, which in its various branches, mapers the attention of



NEW CUNICAL, HOSPITAL CONNECTED WITH DEBREGZEN'S UNIVERSITY The new Clinical Inspital of Deliverens has been erected in clearing in the forest bordering on the form, and we opposed by Admiral Healthy in 1923. It is connected with the annexity, formerly the Professional College for vindents of theodogy and law, shifts set founded in 33 and contains various scientific collections and fine library of some concoverations.



Often referred to 1s the puszta, or steppe, the Alfold of eastern Hungary is a vast, trecless grassland which, like a colm ocean, stretches aw 1y into infinity, its smooth monotony relieved here and there by sand hillocks and lagoons of vurying size. Formerly the plain was devoted to livestock breeding, chiefly horses, and the excellent quality of the Hungarian horse is well known. In those days the world belonged to the herdeman, now, however, the Alfold is mainly agricultural and large areas have been converted into wheatfields which have transformed it into one of the granaries of Central Europe HIS CHARGES HORSEHERD WITH OF HUNGARY ALFOLD コエピ WILD, UNFETTERED LIFE ON



considerably more than half of the total population and provides the greatly preponderating proportion of Hungarian exports, while a number of subsidiary industries are more or less directly dependent upon it So largely is agriculture the pursuit of the people that it is said that even should the harvest fall so far below the average as to be dubbed a "failure," it would still provide not only sufficient for the needs of the home population, but something to spare beyond This is not surprising to those who have seen the grain-grown stretches of the Alfold smiling under brilliant summer sunshine with the ripening wheat or maize

# Melons Among the Maize

The stretches of the latter crop are frequently overtopped by the great heads of sunflowers, while rambling among the lower growth run the vines of great green-coated, purple-fleshed melons, especially in the neighbourhood of the scattered farm steadings low, scattered buildings are frequently to be recognized from far off by the neighbouring well-poles These curious poles are a common characteristic of the lowland scenery On the top of a tall, perpendicular pole another long, tapering pole is placed transversely, from the thinner end of this hangs a bucket, while at the other either the roughly-trimmed stump of the tree of which the pole is formed, or some heavy thing bound on to it, affords a counterbalancing weight when the bucket is drawn up full A well of this kind is to be seen by each of the low, white cottages or farmsteads, and by them, too, are frequently seen little "granaries," similar in size and form to those found in the north of Spain, though plainer in design

# Ripe Colours of Harvest Time

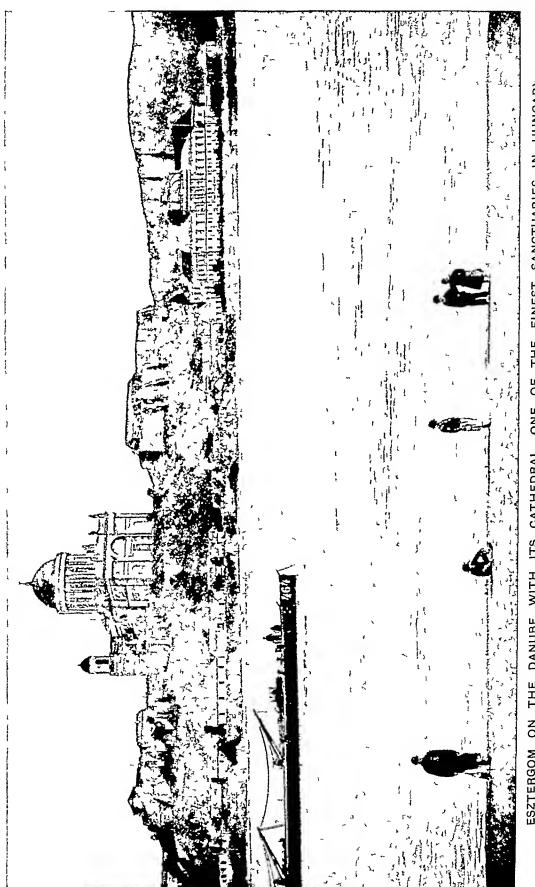
The fact that the plains are frostbound for about a quarter of the year means that all cultivation of the soil and harvesting of the crops have to be crowded into the remaining months For the harvesting a good deal of extra help is frequently needed, and large companies of labourers have long been accustomed to come down from the Slovakian valleys and other districts to take part in it The harvest is taken from the fields in long wagons drawn by wide-horned oxen The maize is husked in the open field, and the great piles of rich golden cobs with, maybe, small heaps of the great green melons near by surrounded by ripening foliage of the rifled maize canes afford, with the men, women and children who have taken part in the husking, wonderful colour pictures that memory brings to mind at the mere mention of the name of the We feel in sympathy with the poet of the great plain who wrote "Far away, where the sky touches the earth in mist, the blue orchards are to be seen Behind them the spires of the churches of the distant towns stand out in dim, fog-like streaks You are beautiful, Alfold! At least, you are beautiful to me"

# Laden Orchards of the Plain

The orchards of which Petofi speaks are generally found near the villages, and indicate another aspect of Hungary's agricultural energy, for great quantities of various fruits are grown, largely for the Austrian market—Great quantities of dried plums are exported, and from the same fruit is prepared the heady spirit which is the national drink

Chief of the manufacturing industries developed from or dependent upon the dominating pursuit of agriculture are flour-milling, which is mainly carried on at the capital, Budapest, the making of beet-sugar and the manufacture of methylated spirit The mills are capable of dealing with three-quarters of a million tons of grain each year Sugarmaking-over one hundred thousand acres of sugar-beet are cultivated-19 carried on in a number of factories which in a good year provide all the country's requirements and a considerable margin for export Much the same may be said of the production of methylated spirit





On the right bank of the Danube, 38 miles by rail north west of Budapest, is situated the Hungarian city of Esztergom, also known as Gran It is the ecclesiastical capital and possesses a magnificent cathedral which in architectural style resembles S Peter's at Rome Situated imposingly on an eminence 215 feet above the river, this fine edifice was begun in 1820 and only completed during the latter half of the nineteenth century, its dome is 260 feet high and 52 feet in diameter HUNGARY ne edifice was begun in 1820 and only completed during the latter half of the ninoteenth century, its dome is 260 feet high and 52 feet. The two pointed towers on the right of the photograph crown the Church of S. Ignatius, near which rises the stately palace of the Primate SANCTUARIES FINEST HHE

Other of the industries of the country have been greatly curtailed, and some of them even threatened with extinction by the loss of native materials consequent mon the great shrinkage of the national frontiers that followed the Great War Wood-working and furniture making for example, are almost hopeles is handicapped by the fact that Hungary which was wont to export large quantities of timber has now to import it for her own needs. For the ironworks, too all ore has to be imported, though the discovery of an iron ore deposit at Eger about 70 miles north-east of Budapest was recently reported. What was a notable and developing industry employing some 70,000 people is at pre-ent reduced to little more than half its caracty

# Il merry Lost Pactorles

One of the largest of the ironworks is that at Ozd, near the Sovalaon frontier It may be noted that these and other works, such as textile and leather working factories, which were established when Hungary was making a bold buf for industrial development, are thoroughly well equipped with modern machinery and improvements.

In a typical leather establishment now become Rumanian—it was possible to follow the process from the arrival of the raw hides at one end of the factory to the other end where the hides had been transformed into well made boots ready for despatch to the shops.

A very marked feature of Hungarian hie is the great extent to which trade, commerce and industrial concerns generally are in the control of Jews, the Magyars rarely interesting themselves in any such concerns, though the state has taken a keen interest in furthering any fresh project for their development and expansion. The many banks, again under Jewish heads, are for the most part trading banks controlling a very large proportion of the country's industrial organizations.

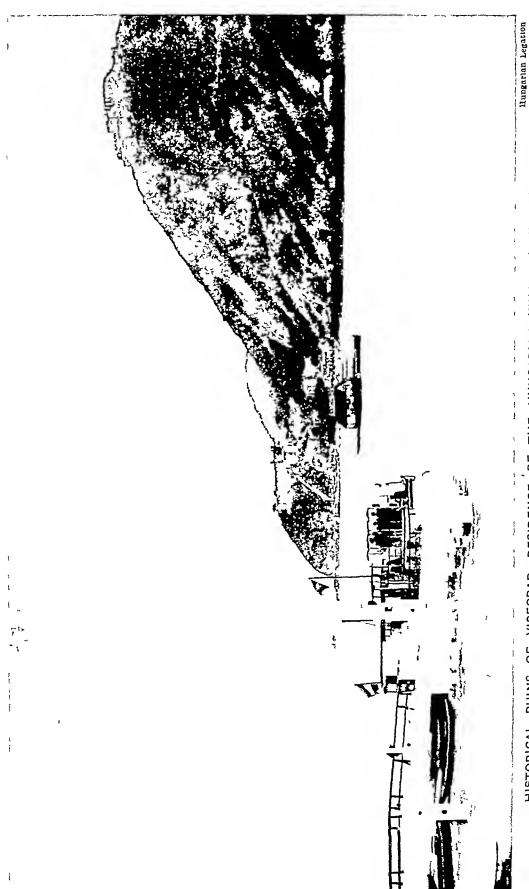
Mention has been made of the slow restoration of the means of transport and internal communications. Though Himgary posseses about 4 500 miles of milway—mostly angle track—it still lacks a sufficiency of rolling stock and expecially of locomotives so that the grain on which the welfare of the country so largely depends is sometimes held up for a considerable time. This has been emphasised by the house shortage consequent upon the influx of about a quarter of a million Magyars from those part of the old state transferred to other rule.

### Stat R Iways and Bed Roads

Thousands of these immigrants took up their domicile in the railway coaches on many ruly it sidings. Such colonies of railway dwiller are however not peculiar to Hungary but have formed a familiar sight to the traveller about central and south-eastern Europe since the Great War. The railways, which are to a large extent controlled by the state, all work being carried out in the state repair hops, are the more important in that highway communication Is for the most part poor. The roads in the capital and in the large towns are from fur to good but those connecting the different towns are generally bad. mostly unsuited to modern motor traffic and only usable by the country carts and ox-drawn wagons, while the byways are frequently no more than tracks across the puszta, worn by such vehicles.

### Increasing River-borne Tred

River communication—with nearly goo navigable miles—is chiefly along the Danube and the Tisza. Steamers ply down the former river to Belgrade, and up-stream to Bratislava and Vienna. The new frontier having been drawn far north of the junction of the Tisza with the Danube has hampered the valuable river connexion of the capital with Seeged the most important of Hungary's provincial towns and the main market centre for the Affold. Navigation of the Danube is controlled by an international commission but until the states through which it flows are



Beautiful riverine scenery is afforded by the Danube in north Hungary before making its broad bend towards Vácz, whence it sweeps southwards to Budapest On either hand picturesque mountains fringe the river, on the summit of an abrupt rock on the right bank the celebrated ruins of Visegrid are seen, while a small township nestles at the mountain's foot The old castle was inhabited by Hungarian kings as early as the eleventh century, was lavishly embellished by Matthew Corvinus and finally fell a victim to Turkish greed The eleventh century Solomon's Tower is seen on a smaller eminence in the central background HISTORICAL RUINS OF VISEGRAD, RESIDENCE OF THE HUNGARIAN KINGS IN THE MIDDLE

constantly at work spinning or making for themselves or their menfolk those ornately decorated garments which are still worn on high days and holidays

The principal city after Budapest is Szeged on the Tisza, close to the point at which that river passes into Serbia, nearly 100 miles from its confluence with the Danube and at the junction of railway communication with that country and Rumania Gothic cathedral, a capital museum and a fine town-hall, this active city of nearly 120,000 inhabitants forms the principal commercial centre of the Alfold, and carries on a considerable trade both by rail and by river roofed-in barges, each with high, curved, carven prow, brightly painted, looking like the forepart of some ancient galley, are employed for conveying in bulk the golden harvest of the Alfold to the mills at Budapest Among the special manufactures of Szeged is paprika, the red pepper peculiar to Hungary, which is very delicately flavoured and far less pungent than cayenne

Debreezen, a town of about roo,000 inhabitants lying 140 miles east of the capital and not far from the Rumanian border, is on that part of the Alfold known as the Hortobagy Plain, through which runs the river of the same name

This is a great centre of the Hungarian cattle-rearing and horse breeding, the Debreczen horse market being famous, and the municipality owning great herds of the cattle that pasture on the plain Here four fairs are held annually, the town being the great market centre for the northern Alfold districts The streets are here planted with acacias

Next to Debreczen in size coincs Kecskemet, about 50 miles south-east of Budapest, with upwards of 70,000 inhabitants. This town, the largest in that part of the plain that lies between the Danube and the Tisza is in a district celebrated for its apple and apricot orchards and vineyards, and has important cattle and wheat markets

In western Hungary the chief town is Gyor, which is on the long branch of the Danube forming the southern side of the fertile river island Szigetköz (island between) Gybr is an interesting old place with a story dating back to the Roman occupation of Pannonia Next importance come Szckesfelicivar. between the capital and Lake Bilaton, centre of the most thickly populated part of western Hungary, and Pecs, an old and rambling town picturesquely built in a deep hollow in the Mccsek mountains near the coal-field to which it has given its name

### HUNGARY GLOGRAPHICAL SUMMARY

Natural Division An alluvial plain drained by the middle Danube a filled-up basin within the curve of the Carpatinans and east of the Alps (Cl South Russia

and South Rum in ()

Clnate A transition area between the We't I proper und the severely continental types. Under continental conditions great extremes of temperature intense cummer heat, and severe winter cold for months the winds from the All intic sometimes in their passage norther twirds reach as far as Hungary and modify the extreme conditions. u willy full in the summer, and the rainfall is, on the whole small in annual quantity. The strong Ametical grass limit (Cf.

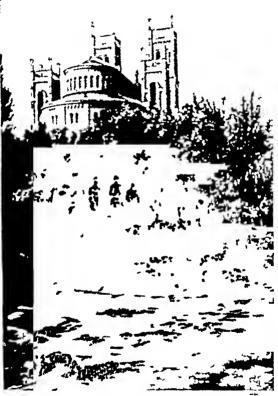
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Canadian promedy area itural. Wheat and mare in becoming in Han dian from his a fur poin opination outbetween 1 parties regenumbers ex

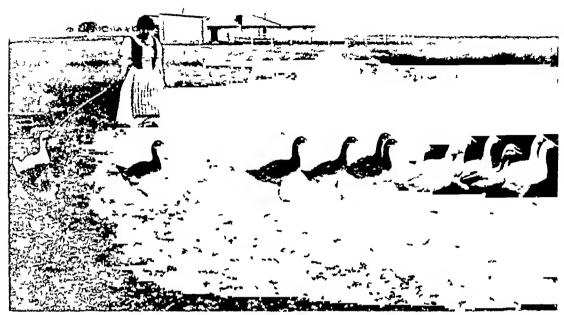
tensively. Sugar-bects yield a large share of the sugar consumed in Central Purope Tobacco grapes, lokay wine fruits (for plums, of Serbia). Horses, eattle and sheep Coal

The Danube and Con munications Fisher are used for river traffic. The reads are, on the whole poor-many of them are unmetalled The railways, arrunged on the zone system centring on Bud ip stare designed to facilitate traffic to the capital at the expense of the provinced centres, rolling stock is in a very bil state of repair

A persentry and an arists cricy, without a middle class deport not on the land, and relying upon a fe it busines clement the people of Hur t lied the social and economic regarnature meces iry for modern process to interest on world trade than the mark of Hollon I Hum my ful to tribe the ! u e of its ratural resources



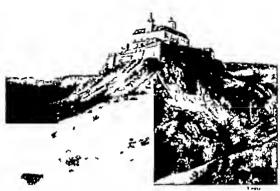
HUSCARY Not far from Budapest lies Foth an estate with a fine park and a very hands me R mane que church finished in 1856 2157



(In the infinite expanse of Hungary's lowland plain are scattered isolated homes, many of them situated a day's journey apait



Hungary In the fertile district of Baranya, lying between the Danube and Drave, cultivation of wheat is now predominant 2158

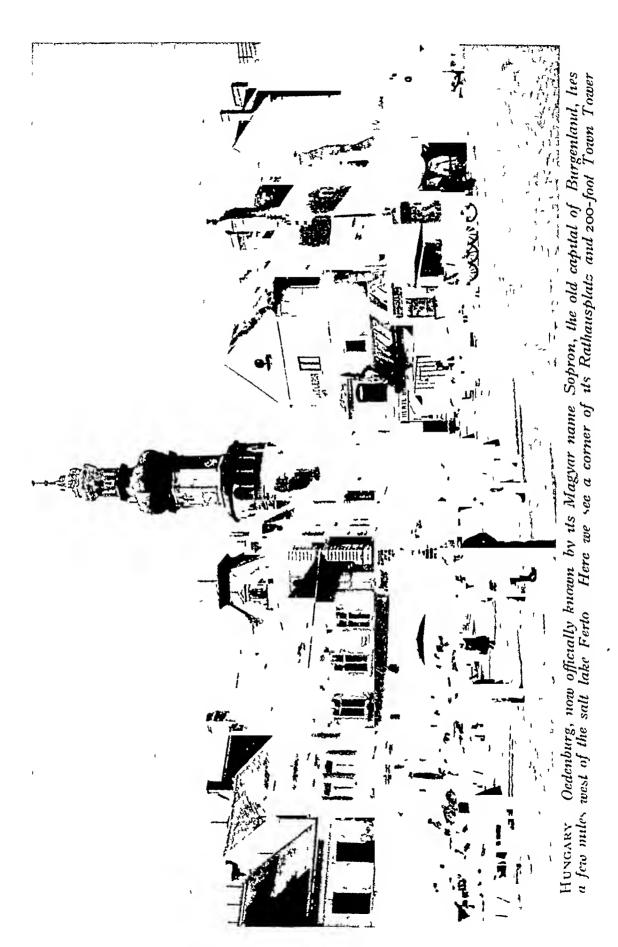


Frakus Fortress is one of the many old en the residences of feudal lords which stud the highlands worth of the (real Hungarian Plani



HUNGARY This is the principal street of Miskolez a busy trading town lying on the Sajo near the edge of the Carpathian foothills

2159





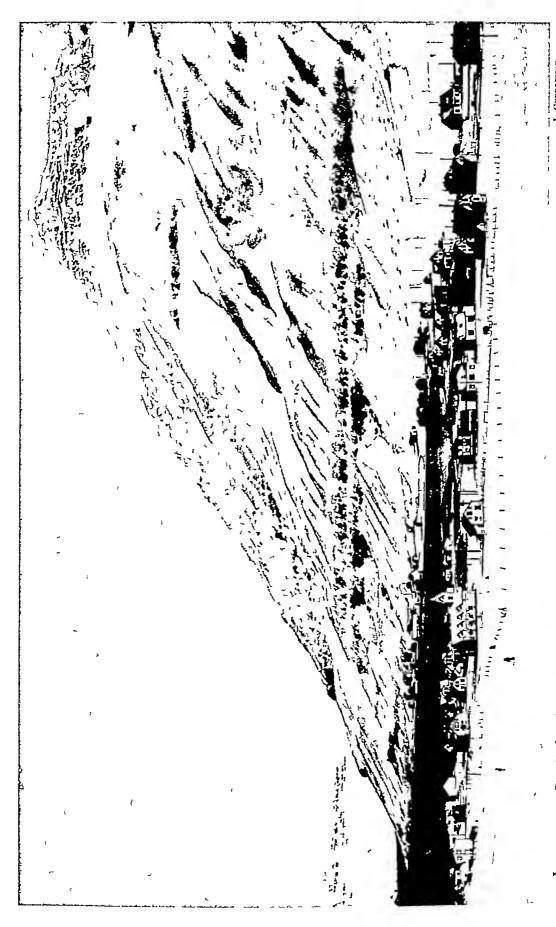
permitting the famous horned cuttle to be subersed HUNGARY On the was Horlodge, Plain near Debrezen plaughing ritains a truly frimities aspect their four in-band teams the farmers would not derain of permitting the famous herived calle to be



ELAND The only road of any real length in the island runs from Thingvellir to Reykjavik through the lowering Almannagia Gorge Iceland



ICELAND Many impetuous torrents flow from the glaciers through deep canyon-like gorges their courses broken by falls and rapids 2163



Seydisfordur, on the shores of its frozen fjord, is here seen buried beneath the winter snows that bind the land in their icy fetters for several months, stopping all travelling except by rough sleighs

# CELAND

# Volcanic Outpost of the Arctic Circle

# by W Bisiker

Author of "Across Iceland," etc.

ROM the geographical point of view is land; one of the most possible remarks in the world it is an island lying about 5,5 miles to the north-west of the mainland of bruppe 4,5 miles from the north of Scotland, and is classed as a division of Europe though it is but so miles from the eatern it to of Gronaland. Its southern a pect is to the North Atlantic Ocean the north touches the Artic Carle and Jacos the Artic Core and Jacos the Artic Core

It is Arcice in character for in the winer the seas to the north sometimes become frown over. In recent geological times it had an ice cap similar to that new covering Greenland. There are still many see-field over parts of the country, the greatest of which Vatna Jokull has an area of about 3,700 square miles.

### Galf Stream Course to tecland

The climate is a combination of Arctic severity and the mild humid conditions that prevail in the west of the British Isles. Sometimes Arctic ice accumulates, at others Iceland is nearly surrounded by a sea of comparatively mild waters the mild side of the climate being due to the same cause that coverns the British climate. The waters of the North Atlantic surface drift blown by the prevailing south-west winds from the creat Atlantic circle of warm water past the British Isles, continue their course until they strike the south west corner of Iceland and then flow on, chiefly to the north-eastward eventually mingling with and becoming lost in the cold waters of the Arctic Ocean. There is much rain in the south west sometimes of a torrential character but there are quick changes, and the heavy rains are not of long duration. The summers are mild and most in the south will tand in the river valleys and the winter-raw and cold with much now. It is much colder in the interior the north west and the ear. In Revkjavik for instance, the term rature average about 3. Fahr inheat in the winter months and 51 in the summer months and 51 in the summer months and 51 in the summer months are temperature; much lower averaging 19. Fahr inheat in the winter and 47 in summer.

### Photography 1 Midnight

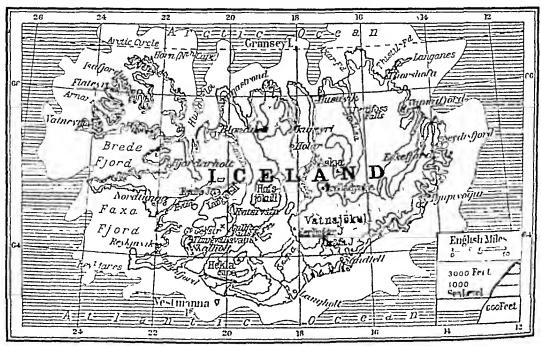
From its position near the Arcic Circle there is a very long day in sum mer with continuous light for about three months and an equally long night with short interval of day light in winter—so good is the light in summer that the writer took some perfectly good photographs at midinght in June though a rather long exposure was necessar. Much fog accumulates all round the coast and in the fjords owing to the meeting of the cold northern writers and the warm currents of the North Atlante drift.

The writer had a strange experience on the north-west permusult. From a ridge between Reykjarfjord and Velthileysa when a sca fog was blowing up the latter fjord with the sun shuning brightly behind he suddenly saw east upon the fog an elongated dark shadow of him-elf with an oval halo of brilliant colours round the shadow. His head was the centre of the halo and round it shone a bright golden yellow light which gradually changed in the outer rings to green and so on to blue indigo and violet thence the colours of the spectrum were continued outward in the reverse order, from violet to a brilliant red. The effect was rather startling at first. These halos are known as Anthelia (Greek, "opposite the sun"), or Glories

The claim that Iceland be considered a part of Europe should rest partly on the fact that, though now so far away, it may in the past have formed part of the continent—the indications point to that assumption The British Islands lie on the continental shelf and have but recently become detached through the encroachments of the sea In the north-east of Ireland, in Antrim, are volcanic remains known as the Giant's Causeway and other well known specicolumnar basalt, sımılar mens of formations are at Staffa, where Fingal's Cave is known to many, and others of the western islands of Scotland, midway between the British Isles and Iceland he the Faroes (Faar or Sheep Islands), which are also volcanic, being masses of basalt, flow upon flow, in Iceland there are many instances of the same volcanic forms It is assumed that not long since, reckoned in geological time, a great fissure or crack lying in a north to south direction opened in the earth's crust and that from it a vast quantity of the molten interior welled upward and covered the intervening area between Iceland and the British Isles, and so became one with and part of the continent of Europe

Iceland is composed entirely of volcanic matter, being a mass of igneous rocks of various kinds—basalt, tuff, liparite, palagonite, etc., in process of gradual disintegration, and though one of the most desolate places in the world, there are many weirdly grand scenes in the interior, on the coast and in the river valleys. At Hvitarvatin in the middle of the country, the ice flows from Langjökull into an ice-cold lake where innumerable icebergs dot its surface.

These icebergs become smaller and smaller as they are pushed away by other and larger bergs just broken from the glaciers. These magnificent sights are sometimes rendered more striking by the ever-changing effects due to the extraordinary colouring caused by the gleaming sunshine suddenly breaking through a rift in the clouds, or by a lifting of the fog. Other features are the almost perpendicular basaltic cliffs of the north and east coasts. There are many most picturesque fjords on the east, north and west coasts, chiefly



RUGGED LAVA-MASS OF LONELY ICELAND

stepped and pyramidal canons with shallow rivers ; running into them

The principal Jokulls or see-fields are in the south and in addition to Vatna almost 3,200 square miles in extent with about 6,400 feet as its highest point there are Hofs and Lang-jokull each over 500 square miles the former 3,600 feet bigh and the latter 5,140. These are the largest remains of the see cap and extend from west to east across the lawer half of the country.

Mountain ranges are comparatively few because a ereat part of the country is elevated talk-land in the early stages of denudation and not much character has been given to the ranges. Lerlin garfioll is the most striking and picture-que range and lies to the south-west of Hofsiökull it is noteworths also as there are hot springs furnaroles and solfataras high up amongst the ice and snow-a region of frost and fire.

In this neighbourhood are many enormous "erratics," great brought down by the glaciers. Other ranges worthy of mention are some that are without doubt the hard cores of old volcanoes-volcanie plugs or necks one on the southern margin of Lang jokull is known as Jarlhetter the Earl s Hats because of the shape of the upper portions sumlar range called halfstindar is close to Laugarvatn a lake in which-because of its warm water—the early Christians baptised. This region is interesting too for the fact that Thingvallavatn, the largest lake in Iceland, and its neigh bourhood has historic associations for there at the Logberg (Law Rock) the

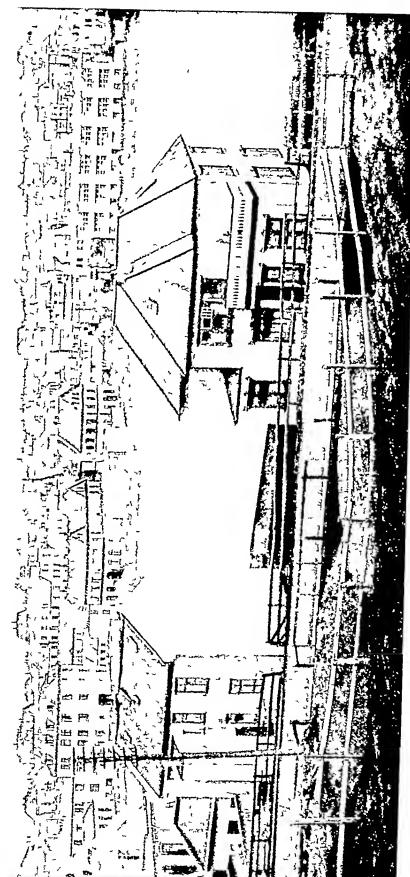


MAGNIFICENT WATERFALL AT SKOQAFOSS
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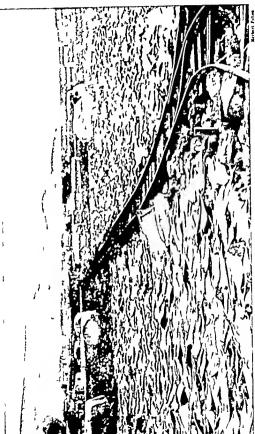
Althing or Parliament used to assemble in the tenth century. Not far away on the road to Reyklavik is a remarkable instance of a glaciated law surface having thereon some of the perched blocks that helped in the smoothing and scratching process.

The highest points in the country are on the lee-fields Vatna, Eyriks (nearly) connected with Langiokull) and Orafa jokulls, the latter an outlier of Vatna jokull to the south—the altitude in each case being about 6,400 to 6,500 feet.

Many volcances exist some of which have often been active in historic times. Hella has the record for the number of eruptions—about thirty more than double that of hath to the



Reykjavık strnds on the Kollafjord, an opening on the south west coast of the island, and has a population of about 16,000. The houses for the most part are made of wood, though now the chief buildings, such as the Senate House, where the Althing assembles and where there is a valuable historical library, are of stonic construction. In the largest square of the town is a statue of Thorwaldsen, the famous sculptor, who was of Icelandic origin. The national library at Reykjavik consists of about 40,000 volumes, and there is also a valuable archaeological collection. PORT OF ICELAND, WITH THE AND REYKJAVIK, THE CAPITAL



ICELAND 2170

south-east Others with several recorded eruptions are Trolladyngja and Orāfa One of the most recent outbursts, that at Askja, north of Vatnajökull, was of a terrific nature and caused widespread destruction over a large area, as also did that of Skapta in 1783, the lava of which swept down the river valley and caused the death of hundreds of human beings and thousands of horses, cattle and sheep

# Two Gigantic Parallel Rifts

Hot springs are found in several regions, and there are many instances of the characteristic sinter (silica) terrace formations, the most notable the writer saw being those at Geysir, at Tunguhver, at Hveravellir, high up in the mountains of Kerlingarfjöll amid the ice and snow, and at Reykir near Husavik There are several rifts, or gjas, the most remarkable being the two parallel rifts Almannagja (Allmen's Rift) and Hrafnagja (Raven's Rift) about four miles apart Between these rifts the whole earth has dropped about a hundred feet most extraordinary break in the earth and forms a "rift valley," the result being due doubtless to vast underground waters flowing from the northern glacial Some extraordinary caves at Surtshellir, their origin probably due to a big bubble formation, have had their size much enlarged by one of the underground rivers from the northern glacial lakes, water-worn lines in the caves indicate the various levels of the old river, which now flows at a still lower level

# Deserts of Sand and Lakes of Ice

There are several sand deserts, the principal of them being known as Sprengisandr and Storisandr. The writer crossed one of the sand deserts, that known as Littlisandr, but there was not a very great accumulation of sand. All he to the north of Vatna and Hofsjokulls. To complete the mention of the extraordinary combination of features notice must be taken of two series of glacial lakes, one to the

north of Langjökull and the other to the west of Vatnajökull, and of a number of crater islets in Brede Fjord on the west coast. Among the largest lakes besides Thingvallavatin in the south-west, where the country has been worn down to the level of a peneplain, or plain of denudation, are Hvitarvatin to the east of Langjökull and Myvatin in the north-east

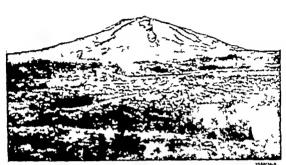
The rivers are numerous, the longest being the Jökulsa, the Skjalfandafljot and the Lagarfljot, all flowing northward, and the Thorsa which flows south-westward—these are the most important and all have their chief origin in Vatnajökull, the last named having also a branch which flows from Hofsjokull

# Fording an Iceland Stream

Many of the rivers are swift-flowing streams and become torrents after the sun on a warm day has melted the ice When fording them the and snow sensation is very uncanny—one's pony seems to be rushing up-stream against the current, the ponies and their riders in front seem to be moving rapidly as the water rushes by and foams round them, but the pace is really very slow as the ponies plod steadily along Quicksands are common in the rivers and everybody has a wholesome dread of fording such parts A member of the writer's party was drowned in the Herradsvatn, he was thrown from his pony when it sank in the quicksand

Remarkable waterfalls he in the courses of the rivers, the best known and most visited being Gullfoss on the Hvita in the south-west. Dettifoss on the Jokulsa in the north-east is another fine fall, others are Gothafoss on the Skjalfandafljst and one in Seydisfjord

In the hot-spring regions are many active geysers. Great Geysir itself when in action is one of the sights of the world. Certain premonitory rumblings always precede an eruption, which is a wonderful sight, great clouds of steam rise from the crater, and stream after stream of boiling water shoots up into

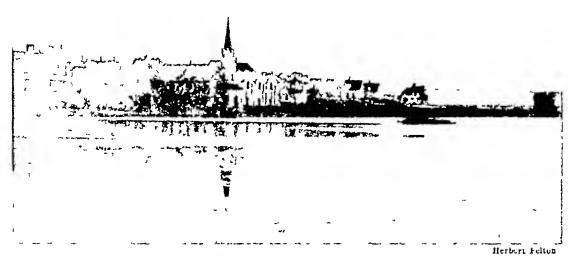


HERLA THE GREAT VOLCANO OF ICELAND OVER 5000 FEET HIGH

Il Ma above indee for existing benefit wouldn't such that first such it first, in it is a place of interest in its activities and official first deep leaster interest index over the interest



QUIDE POSTS ALONG THE ROAD FOR THE SNOW BOUND TRAVELLER in hard has arriber railroad see stage lanes, and all tra-siling must be done on foot or by sexual of the hardy pooles. If the water the road are basied deep love, the bessores and calms. I stones are crecited I mark the convex of the road, the arm pointing toward the road. smaller railroa are placed along the hostpaths and the british of dangeroes receipted.



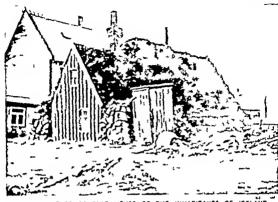
OF THE CHURCH AND WATER-FRONT SMALL OF **HAFNAFJORD** About ten miles south of the capital is Hafnafjord with a population of about 2,300, as is customary in Iceland, the majority of the houses are built of wood. Owing to the rigour of the climate of the central plateau, the bulk of the population is gathered in the towns on the lowlands of the coast and along the fjords where there is good grazing to be found.



CHILDREN PLAYING UPON THE FROZEN LAKE AT REYKJAVIK

At Reykjavik a mountain stream spreads out into a sheet of water about the same size as the Serpentine in London, around which has been built the best quarter of the town. In the winter the lake is completely frozen over, and becomes a favourite playground for the children. Though the town itself is by no means attractive, the surrounding scenery is very beautiful

2171 ICELAND



ORIGINAL TYPE OF PLAT HOUSE OF THE IMMADITANTS OF ICELAND

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CONVENIENT AND EVER READY HOT WATER SUPPLY AT REYKLAVIK.

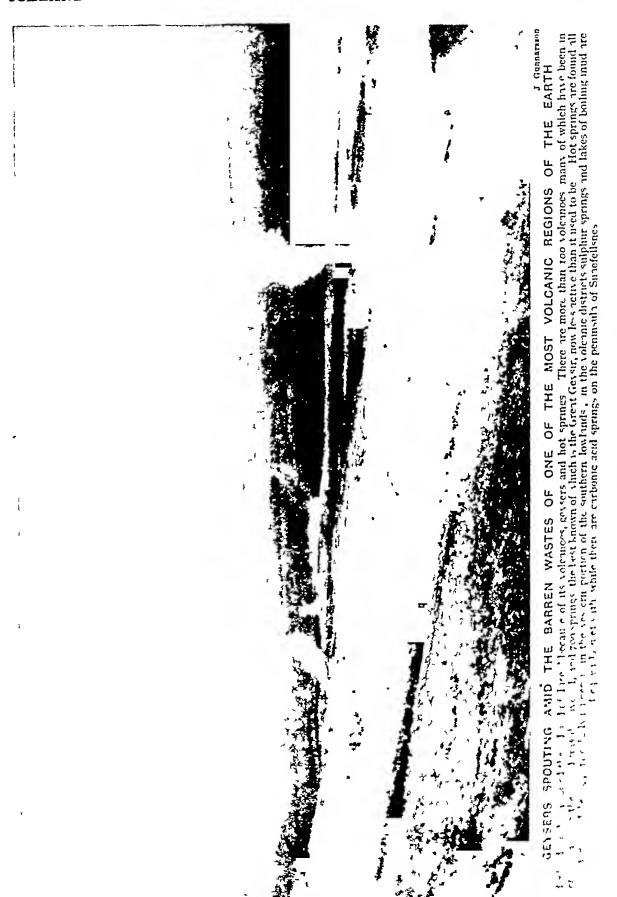
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I be-land the unnerous bot prings are made t be of service as 1 Roykl in where practically

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## Ministers Fore t of Dwarf Trees

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On the sides of the accumulations of morainic matter many instances are seen of precular terrace formations having edges or banks of vegetation that seem to grow in irregular lines and arrest the natural descent of alluvial matter thus forming a series of terraces or steps that rise as a rule but a few inches one above another. The vegets then collects some of the wind blown.

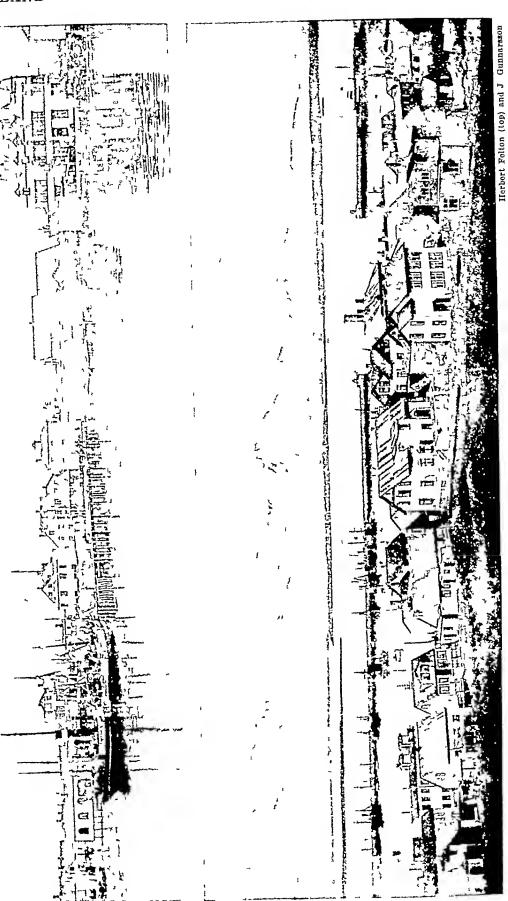
eand of the deserts which assists the erreath of the terraces, som times the sepetation or orgious the 1 mer edges of the terraces and continued growth results in the building up of mall mem is an I lummorks that are generally flat toot d. This hummocks land is usually in fault level country al ere the continuous traffic of genera tion, has ween many ruts or tracks that have ince been kept open and often Expended by the wather. The crosscountry traffic almost crassed when wa traffer printed up the various port. Lest occurs in some of the river valleys and the fierds some of the bogs have been drained with quite good results. Creen moves and lichens cover the masses of lava Many 100 of algae are found growing in the various hot prings

# Stardy Sate-footed Ponle

Though the alluvium in the valleys and in the south west is fertile grain cannot be rared because the heat of the un is not times enough as a rule to turn the grain though it ripens ocra ionally. The chief agricultural products are hay cabbages potatoes, eliminate etc. Ponics, cattle and sheep are listed extentively. The pontes, a number of which are exported to the Briti h 11 d are hardy hitle beasts, averaging about twelve hands born and land in the hill they are accustorned to forage for a living in the roughest country and their experiences cause them to become the surefooted animals that they are. It is wonderful how hard they keep on nothing but green food they never see a bit of hard tack " yet when required they can log along for twelve hours or more and be Iresh at the end.

### Mount and Gide i One

On one occasion the writer and a guide rode the same ponces from eight in the morning till eleven at night except for a rest of about three hours in the middle of the day when other ponies were used the last two or three hours were ridden in the dark and as the writer



Isoffordur is a small port with a magnificent natural harbour on the north west coast, and has over 2,000 inhabitants, it owes its importance to the cod and herring isheries and curing establishments in the neighbourhood. There is a steamer connection from Copenhagen with Reykjavik, where practically the whole of the The spinning and knitting of wool is an important industry, the native tweed being the principal material for the elothing of the inhabitants The former include dairy produce, fish, skins, eiderdown and woollen goods, while among the latter are cereals, sugar, metal SOUTH-WEST COASTS NORTH-WEST AND THE FINE HARBOURS OF ISAFJORDUR (TOP) AND REYKJAVIK ON exports and imports are handled goods timber and coal The spin

could at see the track through the lavabe at tight and I the penty. I comgate the track to lame terms of the wax of the left of the terms of the track the best of drine the written ment of a all are cept that the horizontal are not partially the lame to the waster of the track to the the waster of the track of the comsert when the track of the comsert when the track of the could be as with all or

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## How I Herdown | Collected

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Swans are to be seen on some of the rivers, and duck grouse pitarnigan and goldin player are in alumdance in some di tricts. There are many other species of birds. The waters of Brede Fjord, in the north-west are sometimes alive with puffins in their thousands they flap along the surface of the water or dive beneath it when di turbed by the

is use of a steamship through their territ. Stall frequent Hunn Florand the north west asido whiles and harks. Of fabru. Task food the hermog hallbut and color all rind in the last round. I that I therm in divarious nation little use the of long ground, which have north at less in the world. The rivers will have quantities of fichetical the day at rett and almon expectable. More I the salm on rivers are taking that the salm of rivers are taking that the day at rett who find first day in the salm of the sa

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In the rights of jimoula too the whal him, titen in least distance impacts if it is at learner listeriable light of the writing in a very time hear retirement of 1 ayong whale at the tation at Lamnes and saw the process of reducing whales to the commercial lams of oil whalebone and mining.

### M lodorous Whaling St tion

More than a dozen mall whates were floating in the sea beyond a platform where the whales were cut up one was hauled upon the platform and cut into big labs. The platform was a hamble place covered as it was with slims offal and refuse this stuff being valueless, was disposed of by being shot into the fjord there to pollute its waters the stench that arose from the decomposing matter was too disgusting for words to describe. Large knives in a rotary machine cut up the blubber which was taken to the boiling down room and there treated by steam for ten hours in big cylindrical tanks.



FIELD OF LAVA WITH LAKE GIGANTIC RIFT IN A VAST

Iceland possesses a great number of lakes, the largest being Thingvallavatn, with an area of 25 square miles, lying 20 miles east of Reykjavik. Into this lake runs a small stream, the Oxara, which passes through the groat Almannagia, depicted in the photograph. This gorge is an extraordinary break in the earth extending for three or four miles across the country and being in places over 100 feet deep. On the shores of the lake is Thingvellir, where the Althung, or

The oil then set free and floating on the too is drawn off into calks and shinned to Scotland to be refined. The whalehone cut from the upper is wof the head is milled apart, then washed in roda and water and dried, when it is reads for exportation. The bones are boiled. dried and eround to a fine powder which is exported for manure. After extracting the oil from the blubber the refuse is dried in revolving machines and reduced to the consistency of course meal thi too is used as manure under the commercial name of guano. The harmoons used in the whaling vessels are shot into the whale from a short cannon in the bows of the vessel the heads are bollow and filled with gun nowder when the whale dashes off the tension on the line attached to the harmoon causes the arrow headed blades to extrand and the charge of runnowder the shell bursts and to explode usually kills. The whales are located at sea by the look-out man posted in the bird s-nest " on the foremast

### Creen with a Peaty Flavour

In the farming induitry large quantities of milk are produced and the
whiring of the cream separators is
lieard every morning on the best farms.
Skyr is one of the articles of food served
at all farmhouses it is a kind of
clotted cream, and is eaten with powdered sugar and milk or ordinary cream
poured over it. At most of the farms it
is of excellent quality though sometimes it has a peaty flavour due to the
nature of the surrounding soil.

Minerals are few if you except Iceland spar a double refracting crystal found in a vein in the bed of the stream Silfralackr close to Eskifjerd on the east coast sulphur and iron pyrites. The writer was shown a specimen of the latter as gold and was taken to see an outcrop of coal, but he found it to be obsidian the black form of liparite. There is, however a species of lignite which lies in beds between the hesalt flows near lasifordur in the north-west penusuals of the island.

About half the population lives by agriculture and a quarter by the fishing industry the other quarter finds occupation as general labourers in manufacturing and commercial pursuits and in the professions

The people are generally healthy tuberculoss is the chief disease treated at a sanatorium near Reykjavik and leprosy is confined to two or three districts. Mout fifty physicians are engaged by the government but there are other practitioners and specialists. District bootials provide for local needs.

### Arrangement of | Iceland | Ilouse

In the country the houses, known as baer have turf walls and roof the front of the house and the floors of the best rooms are of wood, the other rooms are floored with Liva blocks, and the walls of the principal rooms are lined with wood. The bed-chamber called bathstofa is used also as a hvang and work room as its name implies, this was once the bath-room but bathing having cone much out of fa bon, the tub at short intervals is no longer considered necessars by most people. This chamber is fitted with a series of open bunks ranged along the sides, where the various members of the family sleep at some of the hunks are the receptacles of a miscellaneous number of articles. There are several guest chambers as a rule but when the farmbouse has not the necessary accommodation it is the custom for travellers to sleen in the churches and sometimes even to have meals served there. Wood and corrugated from buildings are gradually taking the place of the baer in the villages and towns they are common and there also a few concrete buildings are in evidence.

# Exploiting Water Power

Parafiln oil is the principal illuminant in the house, but gas and electricity the latter produced by water power are need in some places for lighting heating and cooking. The fuel is coal and peat Communication between the various ports found the coast is carried out by government steamships and by those of a private company, both of which carry passengers and goods. Inland communications and transport arc by point drawn vehicles and motor-cars where there are suitable roads. Sleighs are used in winter for transport of goods.

Much progress has been made in Iceland during the first quarter of the twentieth century. In 1900 there were only five lighthouses round the coast, now there are more than fifty at that time there were searchy any roads, but in the interval many roads have been made and rivers bridged, locomotion has thus been much improved, especially in the south-west. Iceland is in telegraphic communication with the outside world and the telephone is general, there are also several wireless stations.

The volume of trade has increased rapidly since 1900—five or six fold, to about £2,591,300 worth of imports and £2,672,090 of exports in 1919. The principal imports include timber, galvanised iron, cement, ironwork, motorcars, electrical fittings, coal, foodstuffs, cloth and clothing. The chief article of export is fish, which comprises two-thirds of the total value. It is despatched fresh, packed in ice, also in salted and cured states, the chief kinds being cod, halbut and herring. The other items of export include ponies, salt meat, sealskins, wool, manure products from whales,

whilebone, cod-liver oil and sheepskins. The country has a national debt of £825,000, but the money has been employed in the construction of national works and in providing capital for government trading

Iceland is served by two banks, each having several branches, with a turn-over that increased eighty fold in eighteen years, from about £500,000 in 1902 to nearly £42,560,000 in 1920. The metric system is used for weights and measures. The coinage is based on the krona, common in Scandinavia and worth is it do in British money.

Reykjavik is the capital and also the university town and has a population of about 20,000. It has gasworks and an electrical plant. Many of the houses have all modern comforts, including central heating. It has a sheltered harbour that cost about £250,000.

Other towns of importance, all seaports, are Akureyri with a population of 2,500, Hafnafjord 2,300, Isafjordur 1,980 and Scydisfjord 850. The total population of Iceland is about 100,000.

Iceland was colonised from 874 to 930 mainly by chieftains and their followers from Norway, though the first settlers were Irish Till 1262 it was a republic, but it then passed under the influence of Norway In 1380 it came under Danish protection, but in 1918 it was acknowledged a sovereign state united to Denmark under a common king

# ICELAND GEOGRAPHICAL SUMMARY

Natural Division Like Greenland and N W Scotland, Iceland is a relic of the ancient continent of Arctis, with volcanic activity as an evidence of present instability

Climate and Vegetation On the western edge of the "Winter Gulf of Warmth" of the North Atlantic, Iceland has a climate similar to that of Britain, with abnormally warm and humid winters, due to the set of the oceanic winds and drifts which bring warmth. The ocean to the east is ice-free, to the west is troubled with packice. When the winds fail the climate is Arctic. Semi-tundra (cf. Arctic lands) in

vegetation with some trees Cereals can seldom be ripened

Products Cabbages, potatoes (Cf Labrador) Ponies, cattle, sheep Whales, herring, cod, etc (Cf Newfoundland and the Lofoden Is, Norway) Eiderdown from the eider ducks

Outlook Except for the fishery, in one of the world's backwaters, with the limitations of an infertile soil and an inclement climate and a lack of other resources, Iceland is apparently condemned to continue a self-contained existence as a typical land of hardship, where harsh nature unbends but little